Marine Life Protection Act Initiative

Public Comments Submitted

through September 8, 2010

From: John Moran
Sent: Friday, September 03, 2010 7:25 PM
To: MLPAComments
Subject: Disturbed to know

Hello MLPA people,

I am deeply distrubed to know that the MLPA is infringing on indigenous gathering rights. I am not a Native person and am very ecologically minded. I find it very difficult to believe that you could not accommodate LEGAL indigenous gathering into your plan; effectively acknowledging the difference between commercial fishing, poaching, and traditional harvesting. As many Native people are arguing, it is obviously disrespectful of their culture and rights to ancient cultural practices. As a California citizen, teacher, and former state park naturalist; I am disgraced to know that the MLPA has been unable to recognize California's original cultures and vital relationship with the coast. I hope you will reconsider this aspect of your plan.

Thank You,

John Moran
Orinda, CA

From: John Corbett
Sent: Tuesday, September 07, 2010 12:40 PM
To: MLPAComments
Cc: Megan Rocha; Satie Airame; Ken Wiseman
Subject: Questions

Satie Airame on September 03, 2010 2:43 PM sent an e-mail recommending that I forward the Yurok Science questions to MLPAcomments@resources.ca.gov. address. This is opposed to past requests to submit the questions to Satie Airame so as to avoid ex-parte contacts. In the past we have also been informed both in private and in the public meeting process that questions have to be asked by the BRTF or requested by staff to be valid. It appears that this process is much more open and I commend you for it. I have attached the requested questions and ask that they become part of the public record and request that they will be immediately forwarded to the SAT. I assume that this submittal conforms to your ex-parte rules. If not, please notify me immediately.

John

MLPA Questions

What species in the intertidal reaches of the North Coast Region would subject human harvesters to paralytic shell poisoning from toxin-producing dinoflagellagte *Alexandrium catenella* (formerly *Protogonyaulax catenella and Gonyaulax catenella*) and Domoic Acid Toxicity and *Pseudo-nitzschia* australis) formerly *Nitzschia pseudoseriata*)? The Tribe has identified the following list: bivalve shellfish (mussels, clams, scallops, oysters), barnacles, and fish anchovy. Please confirm the list and identify any other California intertidal species subject to paraletic shell fish poisoning or Domoic Acid Toxicity.

What is the annual sediment load of the Eel, Mad, and Klamath Rivers discharged to the Marine environment?

Is the quantity sediment load from the Eel, Mad, and Klamath Rivers considered significant compared to other river in California?

How is the distribution of suspended sediments affected by currents? Include an analysis of all North/south currents along the coast.

What are the effects on opacity of river discharged suspended sediments from the Klamath, Mad, and Eel Rivers.

What months the sediment discharges are the highest for the Eel, Klamath, and Mad Rivers.

Compare the chlorophyll columns or images from North of the Eel River to the Oregon border to the cholorphyl columns or images in San Diego and from the nearest data point in Mendocino from Van Damme State Park South. Are the chlorphyll colums or images higher North of the Eel River to the Oregon border than in San Diego or the nearest data point in Mendocino from Van Damme State Park South?

Does the up welling of water from deeper areas contribute to Chlorophyll columns?

Does the lack of ocean water opacity in the waters north of the Eel River to the Oregon border affect the growth of kelp?

Compare the opacity of the waters from the Eel River north to the Oregon border with the visibility in San Diego.

Are murky waters a contributing factor to a high rate of shark attacks in Del Norte and Humboldt County compared to the rest of California?

THIS LETTER ALSO SENT VIA EMAIL

Dale Maharidge
P.O. Box 222
Petrolia, California 95558

MLPA Initiative
NCSR Blue Ribbon Task Force
California Natural Resource Agency
1416 Ninth St., Suite 1311
Sacramento, California 95814

August 31, 2010

Hello,

I own a piece of land on Prosper Ridge near Petrolia, a piece of the ocean headland right above Punta Gorda. I purchased my land 15 years ago and have worked very, very hard to create an off the grid home here. I have spent over a quarter of a million dollars doing this.

A big part of my purchasing this land was the lifestyle in Petrolia, and a huge part of that lifestyle is fishing and gathering shellfish on the ocean reefs right below my home.

If the full Punta Gorda closure were put in effect to create a marine sanctuary, it would severely harm the reason I moved here--and in turn harm my property value. It will also harm other businesses in Petrolia, the bed and breakfasts, the store, and so on, because tourists who camp on the beach in the BLM campground also in part come for shore fishing.

I am writing to support the Petrolia "shapes" proposal, which will create three zones and fulfill the needs of the sanctuary, yet preserve our lifestyle and our small local businesses.

I am a strong supporter of creating marine reserves in California. But they must be done with balanced consideration of commercial fishermen and locals in places such as Petrolia.

Sincerely,

Dale Maharidge
dmaharidge@yahoo.com
707-629-3377

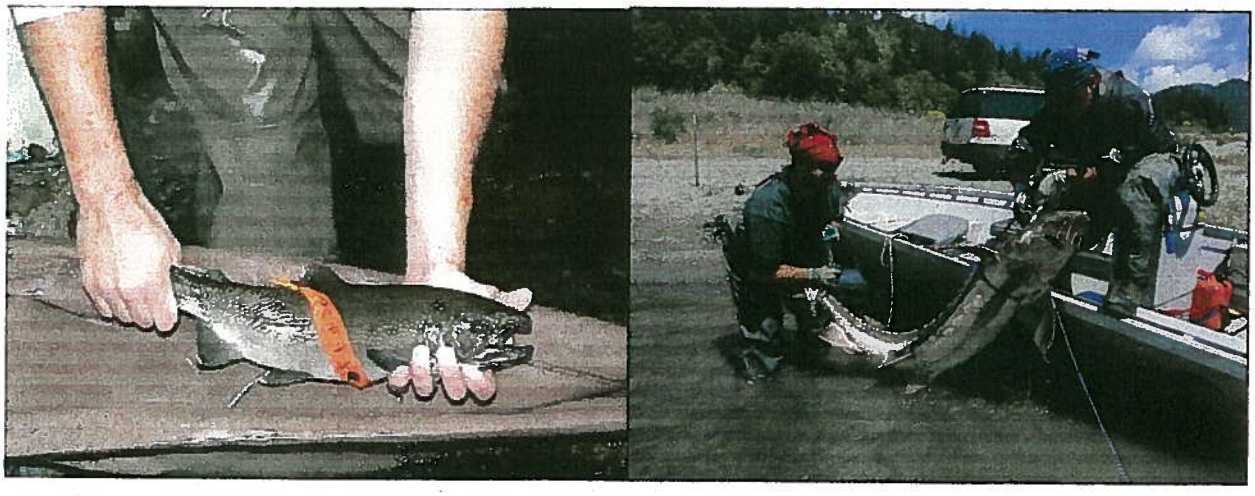
Dear Melissa:

I am forwarding the annual report of the Yurok Fisheries Department. This will be followed up with some additional scientific projects the Tribe is working on. John

Report Received on Sep 8, 2010

Yurok Tribal Fisheries Program

2010 Annual Summary of Projects



Yurok Tribal Fisheries Program Staff

Dave Hillemeier – Fisheries Program Manager

Lower Klamath Division

Monica Hiner – Senior Fisheries Biologist
Dave Weskamp - Fisheries Biologist II
Sarah Beesley - Fisheries Biologist II
Andrew Antonetti - Fisheries Biologist
Scott Silloway – Fisheries Biologist
Carl Anderson – Fisheries Biologist
Delmer "Seagull" Jordan - Fisheries Technician III
Aldaron McCovey - Fisheries Technician III
Anthony "AJ" Webster – Fisheries Survey Lead
Steve Nova Jr. – Fisheries Technician II
Robert Grubbs – Fisheries Technician II
Dwayne Davis – Fisheries Technician II
Gil Caleja – Fisheries Technician I
Nick Folkins – Fisheries Technician I
Nemechay Bates – Fisheries Technician II
Josh Jimenez – Fisheries Technician I
Ryan Ray-Fisheries Technician I
Justin Coldwell-Fisheries Technician I
Caultipshaun Donahue-Fisheries TechnicianI

Harvest Management Division

Desma Williams – Senior Biologist
Arnold Nova – Fisheries Technician IV
Robert Ray - Fisheries Technician III
Nick McCovey – Fisheries Technician II
Delray Bates - Fisheries Technician II
Alan Davis - Fisheries Technician II
Damian French – Fisheries Technician I

Approximately 13 additional technicians will be hired for monitoring the fall fishery.

Klamath Division

Mike Belchik – Senior Fisheries Biologist
Josh Strange – Fisheries Biologist II
Barry McCovey Jr. – Fisheries Biologist II
Jamie Holt – Fisheries Technician III
Rocky Ericson – Fisheries Technician II
Troy Fletcher Jr. – Fisheries Technician I

Trinity Division

Tim Hayden, Senior Fisheries Biologist
Shane Quinn, Fisheries Biologist II
Aaron Martin, Fisheries Biologist II
Kyle Dejuilio, Fisheries Biologist I
Nathan Harris, Fisheries Biologist I
Warren Peterson, Fisheries Biologist I
Hank Alameda Jr., Fisheries Technician II
Jeremy Alameda, Fisheries Technician II
Tim Ulrich, Fisheries Technician I
Larry Alameda Jr., Fisheries Technician I
Albert Markussen, Fisheries Technician I

Lower Klamath Division

The Lower Klamath Fisheries Division (LKFD) is comprised of fisheries biologists and technicians dedicated to assessing and monitoring fisheries populations and habitats to develop and implement effective restoration projects in tributary and mainstem habitats of the Lower Klamath River. The top priority of our division is to work with other experts, stakeholders, and restoration partners to restore habitats to levels that support viable, robust fish populations. Our division continues to obtain the funding necessary to expand current fish monitoring programs and to conduct salmon habitat improvement projects in several priority tributaries.

Adult Spawning Surveys in Blue Creek

To assess annual run size and spawning activity of chinook salmon, LKFD conducts weekly snorkel surveys throughout the Blue Creek watershed from September through December as flows allow (Figure 1). These surveys allow LKFD to assess annual escapement trends in Blue Creek and refine our knowledge of spawning timing and magnitude, redd locations, and age structure of returning chinook (Figure 2). LKFD also conducts snorkel counts of adult coho, salmon and steelhead in Blue Creek during winter - spring as flows and funding allow. These spawning surveys have been conducted annually from 1994 - 2009 and continue to provide valuable fisheries management information. LKFD is currently finalizing a report that summarizes the adult salmonid monitoring program in this critically important watershed.

Figure 1. Photographs of a school of adult chinook (left - 1996); and of an adult female chinook guarding a newly constructed redd (right – photo by Thomas Dunklin fall 2008) in Blue Creek.

Figure 2. Andrew Antonetti collecting biological data and otiliths (ear bones) from a spent male chinook to assess the age structure of Blue Creek spawners (photos by Thomas Dunklin 2008).

Juvenile Outmigrant Trapping in Blue Creek

Juvenile salmonid emigration is monitored with a rotary screw trap from February through September in lower Blue Creek. This provides a means of monitoring long-term production trends of juvenile chinook, coho, steelhead, and coastal cutthroat trout. In addition, this project allows for continued refinement of juvenile salmonid life history patterns within the Blue Creek watershed. This project has been conducted annually from 1995 - 2010.

Salmonid Life-History Monitoring in McGarvey Creek

A pipe trap is operated in lower McGarvey Creek between February through June to monitor long-term juvenile salmonid emigration and life history trends. This trap also provides a means of assessing population trends in response to ongoing restoration activities in the McGarvey Creek watershed. This project has been conducted annually from 1997 through 2010 (Figure 3). Crews are currently gearing up to pull the trap for the season due to low flows and no fish; and entering the 2008 data to complete a smolt outmigration report that will cover 1997 – 2008.

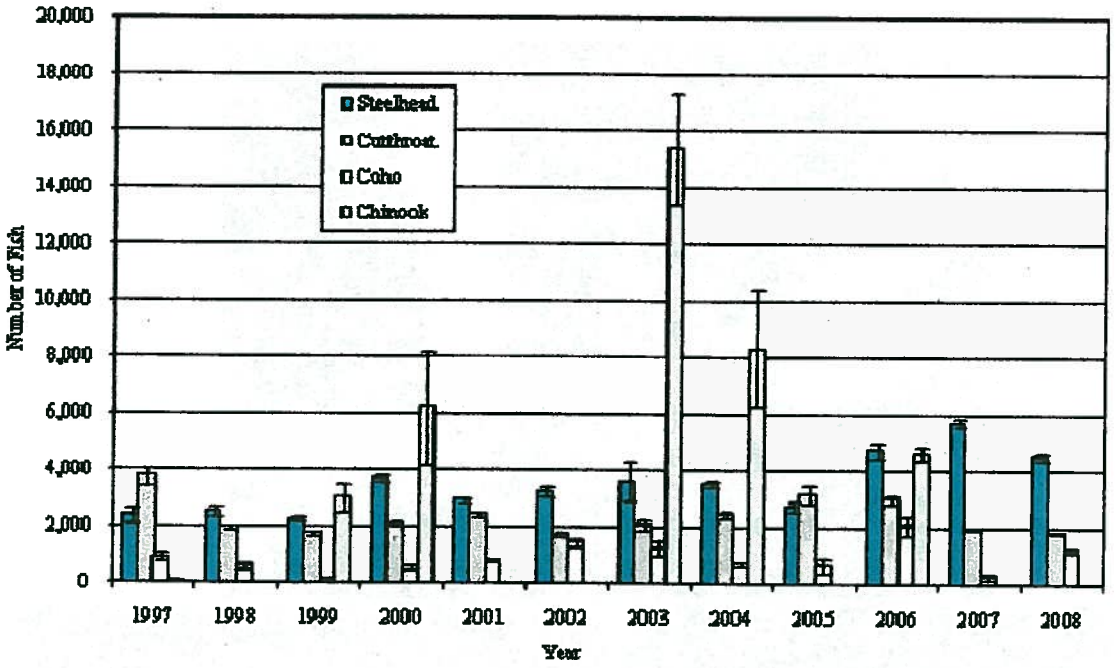


Figure 3. Estimated number of yearling and older steelhead, coastal cutthroat trout, coho salmon, and chinook salmon emigrating past the McGarvey Creek outmigrant trap, 1997 – 2008.

In addition to the annual juvenile salmonid outmigrant trapping, LKFD has also conducted annual summer abundance surveys for juvenile coho salmon and steelhead since 2002 (Figure 4). Since 2007, LKFD has also been operating various adult and juvenile traps and conducted additional fish surveys during winter through spring to enumerate anadromous salmonid populations at all life stages (adult spawning, summer rearing, and spring outmigration) and thus better assess survival rates between each life stage; and to guide restoration efforts in this priority watershed. These life-history studies revealed substantial use of McGarvey Creek by non-natal juvenile salmonids, especially during winter through spring (YTFP 2009).

Figure 4. Scott Silloway and Robert Grubbs conducting a multiple pass depletion electrofishing survey in West Fork McGarvey Creek (left); and a coho salmon smolt (right).

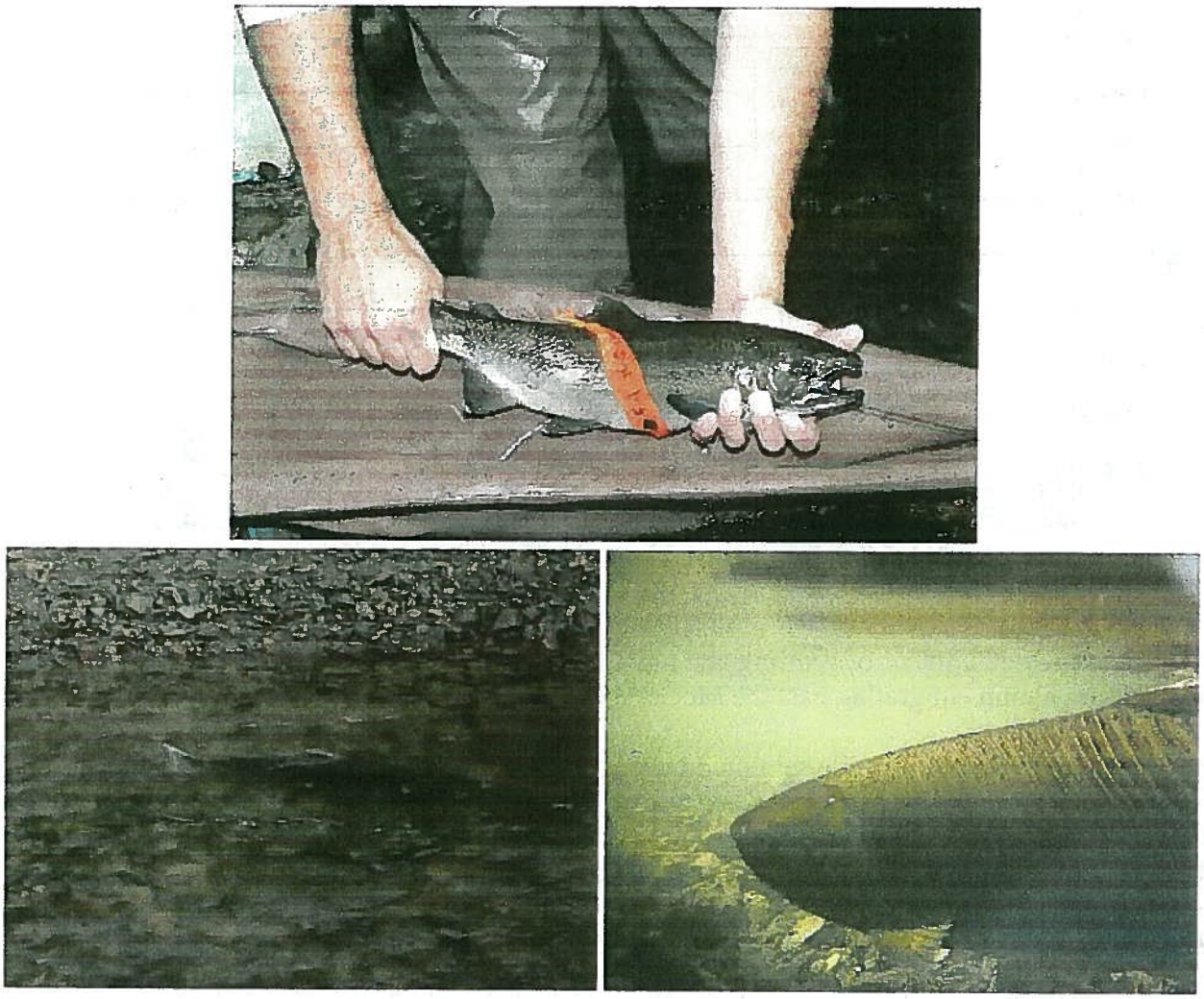


Figure 5. An adult coho captured in the McGarvey adult weir in 2008 (top); and spawning coho observed during McGarvey Creek spawning surveys (bottom – photos by Ben Laukka).

To better track salmonid populations in the watershed and in the Klamath Basin, LKFD has been implanting PIT (Passive Integrated Transponder) tags into salmonids captured during fish sampling efforts in McGarvey Creek and in other Lower Klamath habitats. PIT tags are tiny capsules electronically coded with a unique identification number that can be detected by hand-held scanners (Figure 6) and/or stream width antenna stations. LKFD recently received funding from both the California Department of Fish and Game and the U.S. Bureau of Reclamation (BOR) to continue and expand salmonid monitoring efforts in this watershed. As part of these efforts, LKFD will be installing multiple PIT tag monitoring stations in McGarvey Creek to increase our ability to recapture PIT tagged fish and document natal and non-natal use by juvenile coho. LKFD has been operating a series of. Recapture information collected at these stations improves our understanding of salmonid migration, residency, survival, and diverse life history strategies.

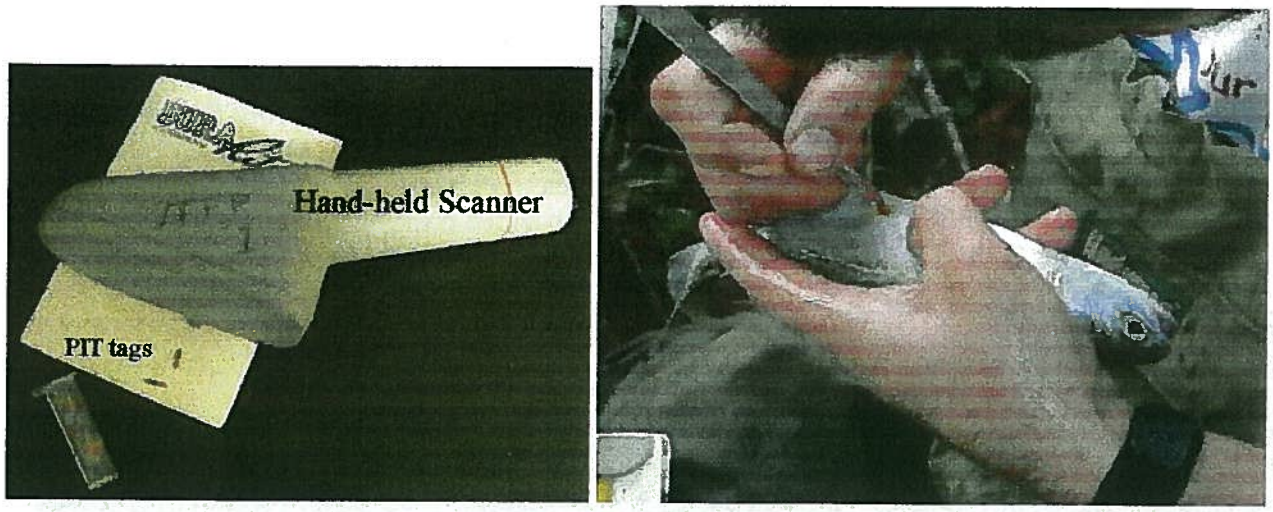


Figure 6. PIT tags and hand-held scanner (left); and Scott Gibson performing the necessary incision to implant a PIT tag into a juvenile steelhead (right).

Coho Salmon Ecology Project

Since 2007, LKFD has been coordinating with the Karuk Tribe and other partners to conduct the Coho Salmon Ecology Project. This project is funded by BOR to assess and monitor juvenile coho habitat use, movement, growth, and distribution throughout the Klamath River (Soto et al. 2008; Hillemeier et al. 2010). LKFD has mainly focused on monitoring off-estuary tributary, wetland, and slough habitats including the South Slough of the estuary, Waukell Creek, Salt Creek, McGarvey Creek, Panther Creek, Richardson Creek, and Spruce Creek (Figure 7). Objectives include documenting fish use and timing as well as tracking upstream and downstream fish movement in the tributary reaches. This project has relied heavily on the use of PIT tags and mark-recapture techniques to assess migration patterns, habitat use, growth, survival, and residency. Since 2007, the Yurok and Karuk Tribes have implanted thousands of juvenile coho with PIT tags in habitats located throughout the Mid- and Lower Klamath.

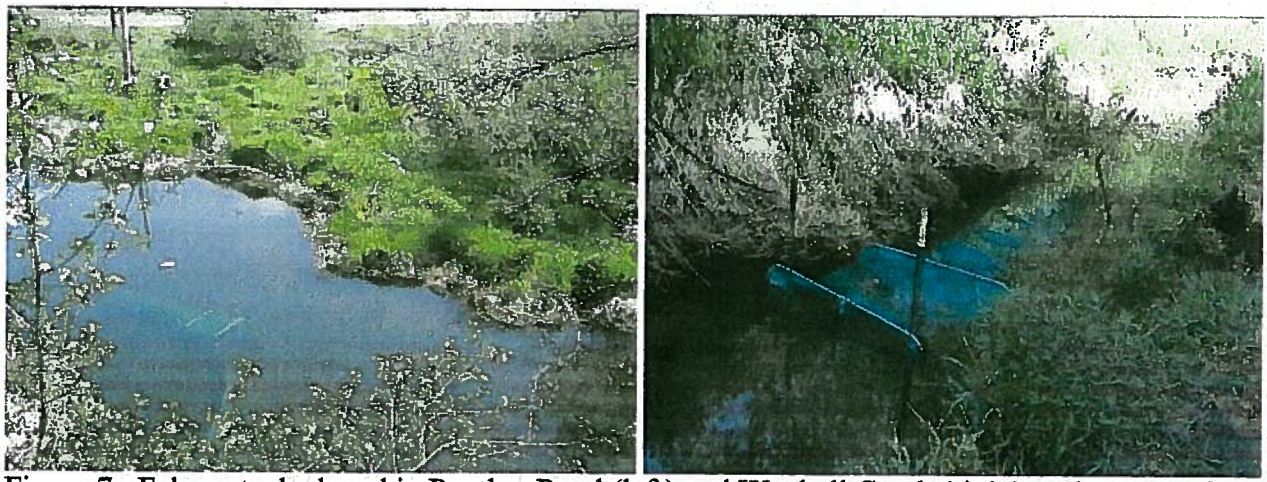


Figure 7. Fyke nets deployed in Panther Pond (left) and Waukell Creek (right) to document fish migration, growth, survival as part of the ongoing Coho Salmon Ecology Project.

During December 2008, LKFD worked with Biomark to install remote PIT tag monitoring stations in Waukell, Salt, and Panther Creeks to detect PIT tagged fish and record detection time, tag number, and directional movement (Figure 8). The stations are solar powered, but require crews to charge batteries bi-weekly during winter months. The stations have been functioning since December 2008 with few interruptions and have provided critical recapture data including coho marked by the Karuk Tribe in the Mid-Klamath (i.e. travel distances of 127 river miles).

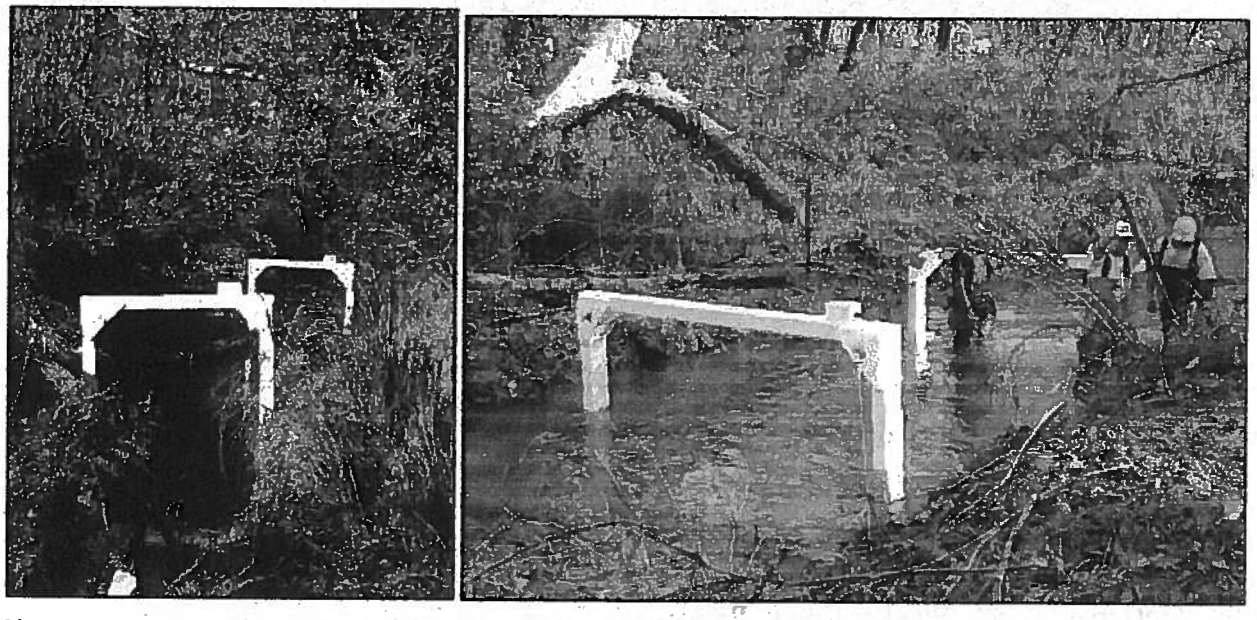


Figure 8. PIT tag monitoring stations in Panther Creek (left) and lower Waukell Creek (right).

In April 2010, LKFD received funding from the National Oceanic and Atmospheric Administration (NOAA) to establish two remote PIT tag monitoring stations on Terwer Creek. LKFD is currently working with NOAA to implement a large-scale American Recovery and Reinvestment Act (ARRA) restoration project in Terwer Creek. The PIT tag stations were constructed, with help from U.S. Geological Survey staff from the Klamath Falls Division, in two existing off-channel habitats in lower Terwer Creek. These remote stations will greatly increase our ability to document use of these off-channel habitats by natal and non-natal juvenile coho salmon; and to assess juvenile residency time, growth rates, and stranding. The stations were operated in conjunction with mark-recapture surveys during winter-spring 2010 to document fish use in the two existing off-channel habitats prior to implementing wetland enhancement activities in summer 2010. Once the ponds are constructed, the PIT tag stations will be re-constructed to prepare for the first monitoring season following restoration.

Stream Habitat Restoration

During summer 2009, LKFD continued wood loading activities in the McGarvey Creek watershed with our restoration specialist Rocco Fiori (Licensed California Geologist, Fiori GeoSciences (FGS)). LKFD and FGS constructed ~13 complex wood jams (CWJs) in stream and floodplain habitats located downstream of West Fork McGarvey (Figures 9-10). Objectives

of these efforts include immediately improving conditions for fish by facilitating the geomorphic processes that result in the formation and maintenance of critical habitats (i.e. pools and spawning beds) and to help promote riparian health. These restoration efforts also provide high quality and diverse job training opportunities for Yurok Tribal member staff (Figure 11). We also received funding to implement the first few phases of a comprehensive restoration plan for lower McGarvey Creek. The first few phases will focus on creation and enhancement of floodplain and off-channel habitats to increase the quality and quantity of rearing habitat available for natal and non-natal salmonid populations, especially ESA listed Klamath coho salmon. We are planning to construct the first alcove channel in summer 2010.

Figure 9. Photographs of the 2009 Site 5 prior to wood loading activities (Top – Summer 2009) and following construction of the wood jam (Bottom – Fall 2009).

Figure 10. Photographs of the 2009 Site 5 prior to wood loading activities (Top – Summer 2009) and following construction of the wood jam (Bottom – Fall 2009).

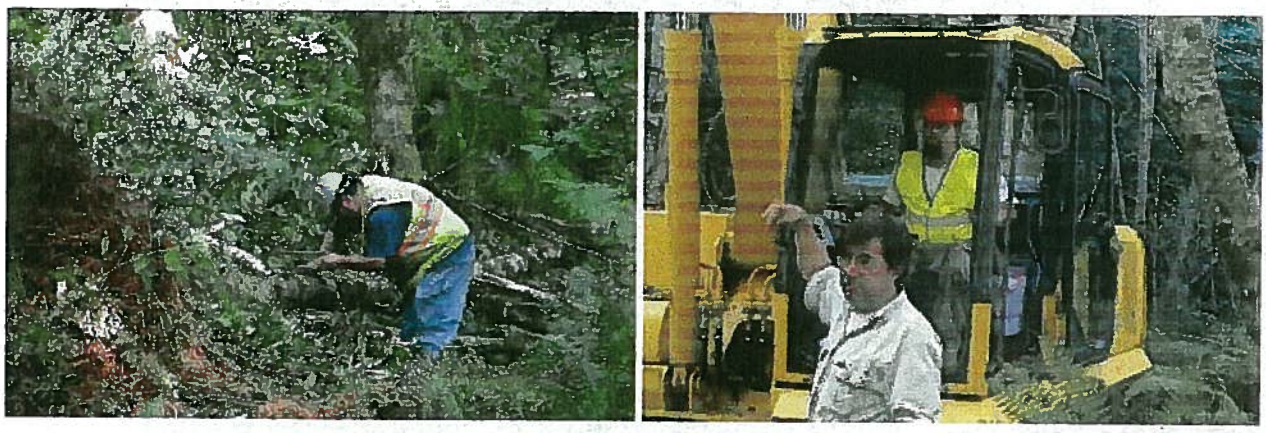


Figure 11. Steven Nova (Left – Summer 2008) and Aldaron McCovey assisting Rocco Fiori (Right – Summer 2007) with wood loading activities in the McGarvey Creek watershed.

In summer 2009, LKFD and FGS also constructed 13 CWJs in upper Waukell Creek to immediately improve spawning and rearing habitat for natal and non-natal salmonid populations; and promote the development and maintenance of complex and resilient stream and riparian habitats (Figure 12). In spring 2010, crews planted 2,550 native redwoods in the reach located directly upstream of the CWJs to promote future wood recruitment to this reach (Figure 13).

Figure 12. Photographs of complex wood jams constructed in Waukell Creek in summer 2009 and the numbered ID tags surveyed to document any movement of wood over time.

Figure 13. Redwood saplings recently planted in riparian habitats of Waukell Creek.

LKFD continued implementing riparian and stream restoration project tasks in lower Terwer Creek. Funding to complete these efforts was secured through grants from U.S. Bureau of Indian Affairs (BIA), the U.S. Fish and Wildlife Service (USFWS), and NOAA's ARRA Program. Restoration techniques implemented included construction of willow siltation baffles, log-boulder structures, and engineered log jams (ELJs) to reduce bank erosion rates, protect riparian

habitats, and immediately improve conditions for native fish populations (Figures 14-15). In spring 2010, LKFD completed a restoration report for USFWS Tribal Landowner Incentive Program. The report documented restoration and monitoring activities in lower Terwer Creek from 2007 – 2009 (YTFP 2010). Starting in July 2010, LKFD and FGS will enhance two existing off-channel ponds in lower Terwer Creek and construct associated willow baffles and ELJs to continue improving stream and riparian habitats in this priority watershed.

Native Tree Nursery and Riparian Restoration

Crews have continued operation of the Yurok Tribal Native Plant Nursery at the Lower Klamath Fisheries office in Klamath. Yurok Tribal staff are trained in seed and cutting collection, germination and propagation, and tree growing and planting. LKFD grows several thousand native deciduous and conifer trees for use in our stream restoration projects. Species cultivated and grown to date include coastal redwood, Douglas fir, Sitka spruce, western red cedar, Port Orford cedar, big-leaf maple, red alder, black cottonwood, tanoak, white oak, and bay laurel. LKFD worked with a local contractor to construct a green house facility at the nursery as part of the NOAA ARRA project and a grant from the U.S. Department of Agriculture (Figure X).

Crews have been conducting extensive riparian planting throughout high priority Lower Klamath River tributaries since the late 1990s. Plantings have consisted of native conifers and deciduous saplings to facilitate our long-term goal of reestablishing mature, resilient riparian forests. In winter 2009-2010, LKFD planted over 9,000 native conifers in riparian habitats of McGarvey Creek upstream of wood loading activities; 27,832 conifers and 283 deciduous trees in riparian habitats of Terwer Creek; 15,889 conifers in riparian habitats Hunter Creek; and 2,550 conifers in riparian habitats of Waukell Creek (Figure 13). Riparian planting activities will continue in Hunter and Terwer Creeks during winter 2010-2011.

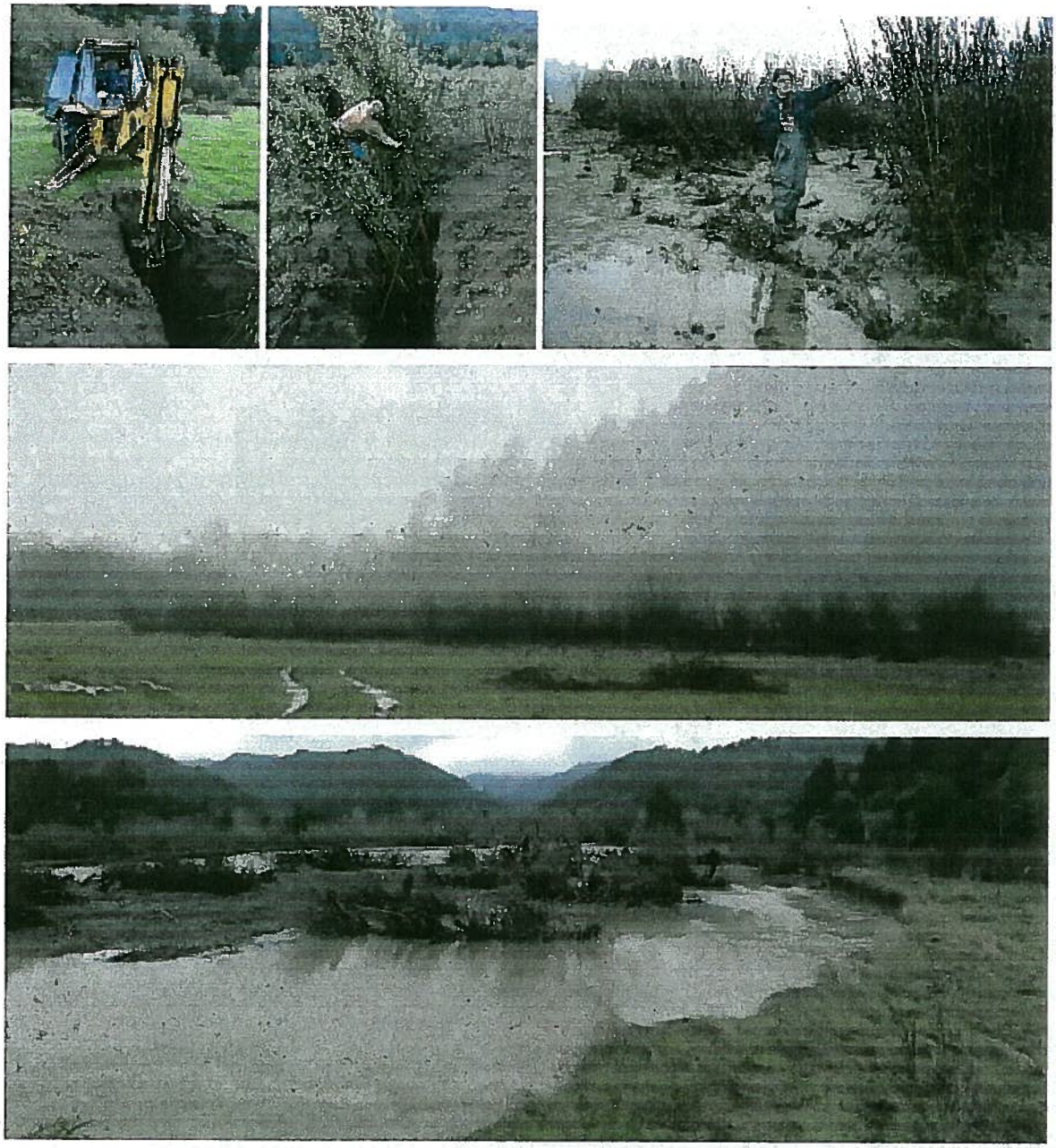
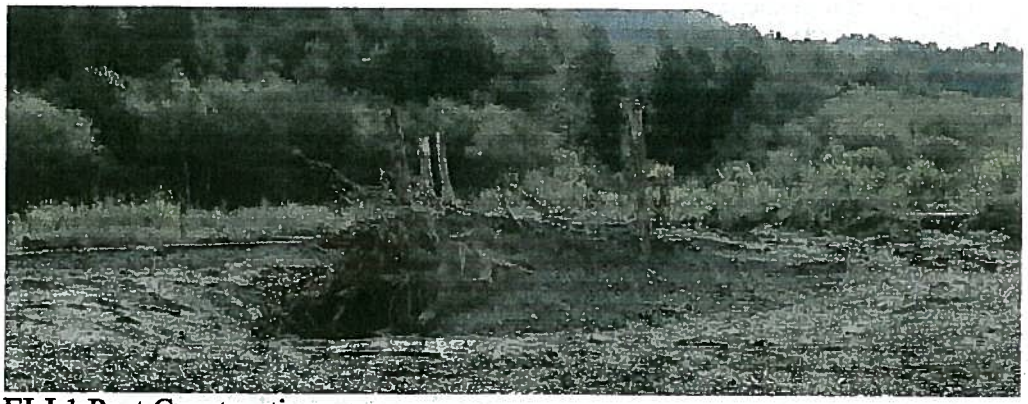
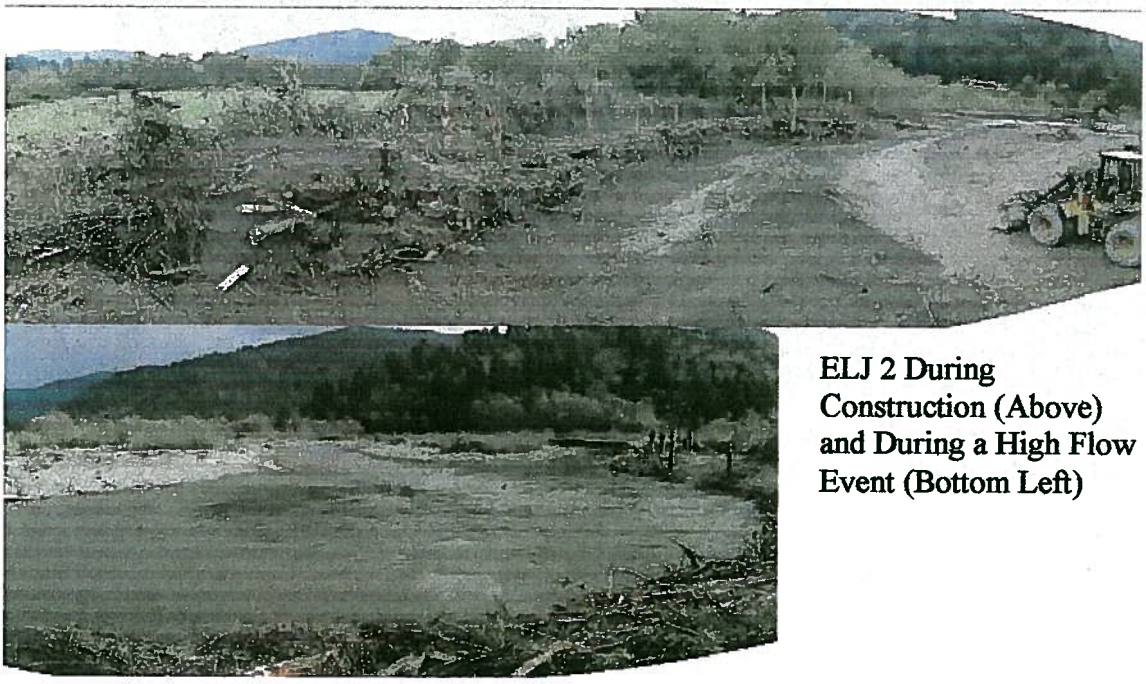


Figure 14. Photographs of willow baffle construction (Top Left – winter 2009) and following construction and high flow events (Top Right and Middle and Bottom).



ELJ 1 Post Construction

ELJ 1 During Winter 2009-2010 High Flows



ELJ 2 During Construction (Above) and During a High Flow Event (Bottom Left)

Figure 15. Photographs of engineered log jams constructed in Terwer Creek in 2009.

Restoration Planning and Effectiveness Monitoring

Since 2002, LKFD has been conducting watershed assessments and planning restoration in off-estuary habitats of the Klamath River (Beesley and Fiori 2004, 2007, and 2008). During the past year LKFD continued obtaining the necessary physical and biological data to develop a large-scale, process-based restoration plan for the Klamath River estuary; and developing conceptual designs and permitting strategies for the area. As part of these efforts, LKFD partnered with GDRC to obtain high resolution LiDar for the Yurok Tribe Reservation lands. We have also been coordinating with YTEP to integrate their coastal wetland assessment program (Patterson 2009) into the estuary restoration planning effort. LKFD is currently seeking the funding necessary to complete the restoration plan for the Klamath River estuary.

LKFD has been working with several resource agencies and stakeholders to develop restoration strategies for Waukell Creek based on the non-natal salmonid use of this watershed that has documented over the last few years (Soo et al. 2008; Hillemeier et al. 2009). Priority restoration objectives include 1) improving hydrologic and geomorphic function to ensure protection of critical downstream habitats (i.e. estuary); 2) increasing juvenile salmonid rearing capacity and productivity; and 3) enhancing adult salmonid staging and spawning habitats. Restoration activities will include constructing CWJs in channel and floodplain habitats; enhancing existing wetlands and creating new, complex off-channel habitats; removing invasive plants and reestablishing native riparian species; and replacing poorly functioning culverts.

LKFD developed several restoration grants to various resource agencies to conduct more stream and off-channel enhancement projects in McGarvey and Hunter Creeks; and to monitor salmonid populations in McGarvey Creek and the Lower Klamath. We also continued working with Yurok Forestry and Watershed Departments, GDRC, various resource agencies, and state-level policy makers to establish a workable protocol for obtaining quality wood sources for salmonid restoration projects in the Klamath Basin and throughout California. Survival of California coho depends heavily on resource stakeholder's ability to build and restore off-estuary rearing habitats; and loading these and other tributary habitats with large amounts of high quality wood (i.e. large whole trees and smaller material to incorporate into complex jams). Developing a sound mechanism for generating wood for instream enhancement projects is critically important to LKFD and the fisheries resources of the Yurok People.

Crews continued topographic surveys in several priority watersheds to document baseline and post-restoration conditions to assess restoration effectiveness and to guide future efforts (Figure 16). LKFD is dedicated to assessing the effectiveness of restoration activities in the Lower Klamath River to learn from past projects, adapt restoration activities to better address limiting factors, and provide models for other salmonid restoration practitioners. LKFD recently completed topographic surveys in East Fork Hunter, McGarvey and Terwer Creeks to document baseline conditions prior to implementing stream enhancement projects this summer.

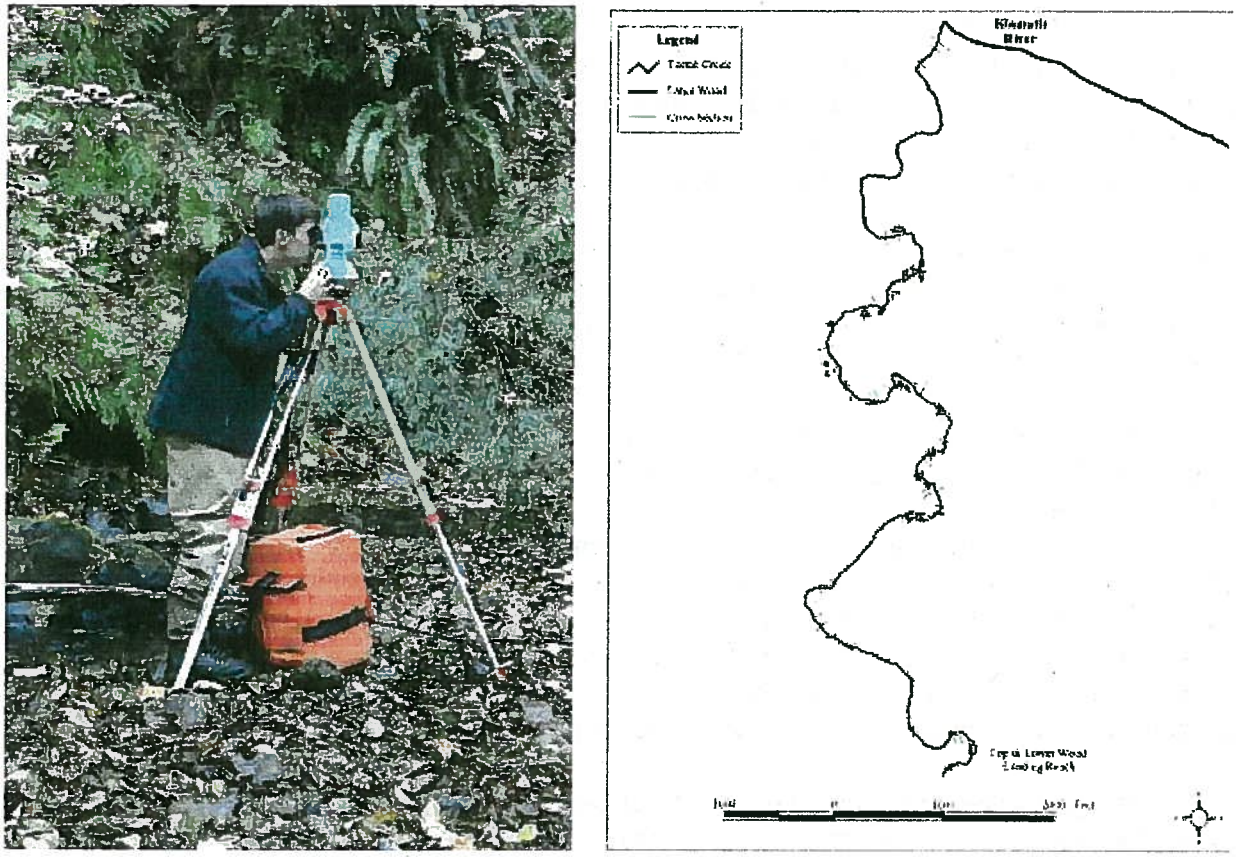


Figure 16. AJ Webster surveying McGarvey Creek and the large wood placement sites (left); and a map generated from survey data in Tectah Creek (right).

CalTrans Coordination on the Proposed Klamath Grade Raise Project

LKFD continued coordinating with the California Department of Transportation (Caltrans) regarding their proposed Klamath Grade Raise (KGR) scheduled for 2011. The KGR has the potential to impact several key drainages and off-estuary wetlands critical for natal and non-natal salmonids and other Tribal Trust wildlife. Other Tribal Departments involved in this process include Yurok Tribe Environmental Program (YTEP), Yurok Legal Department, and Yurok Planning and Development Department, as well as Executive staff and Council. These Tribal departments have been meeting regularly to provide comments on potential design and construction scenarios and to inform CalTrans regarding the resources at risk. As part of these efforts, LKFD recently completed a fisheries related study in the KGR project area to begin documenting use of the project area by ESA listed coho salmon (Silloway 2010). This summer we began a second study to further document juvenile coho use in Panther Creek pond and in Spruce Creek; and to further characterize fish habitat in Panther Creek pond (Figure 7).

Fish Health Monitoring

We have been an active member of the Klamath Fish Health Assessment Team (KFHAT), which is geared towards preventing fish kills in the basin and serves as an emergency response team in the event of future fish kills. We have also coordinated with the U.S. Fish and Wildlife Service

(USFWS) to conduct disease monitoring of emigrating juvenile chinook downstream of Blue Creek. We are currently coordinating with upriver staff to conduct the 2010 sampling effort.

Water Temperature Monitoring

Water temperature is monitored annually in several priority Lower Klamath tributaries including: Hunter, Terwer, McGarvey, Blue, Ah Pah, and Tectah Creeks. Tributary water temperature monitoring was initiated in 1995. Due to the influence of stream temperatures on salmonid growth and survival, LKFD plans to maintain this long-term data set as funding allows.

Presentations, Conferences, and Trainings

In spring 2010, Sarah Beesley assisted Rocco Fiori (FGS) develop professional presentations that highlighted recent watershed restoration activities conducted by FGS in the Klamath Basin and Smith River; and that stressed the importance of these activities for the survival of Klamath Basin and other north coast populations of coho salmon. Fiori presented his work with LKFD on the Lower Klamath at the Klamath Basin Science Conference held in Medford last spring.

In March 2010, LKFD staff (Dave Weskamp, Gilberto Calleja, Aldaron McCovey, Delmer Jordan, and Sarah Beesley) attended the first annual joint California-Nevada Chapter of the American Fisheries Society and the Salmonid Restoration Federation conference held in Redding in March 2010. Sarah Beesley coordinated with Rocco Fiori (FGS) on a presentation regarding wood loading techniques and the importance of these projects to the survival of California salmonids, especially coho. FGS presented several case studies including the wood loading projects implemented in Terwer, McGarvey, and Tectah Creeks and also received the "Golden Pipe" for his innovative work in salmonid restoration from the Salmonid Restoration Federation.

Reports and Presentations Completed

Fiori, R.A., S. Beesley, D. Weskamp, D. Hillemeier, J. Beneger, S. Nova, and T.B. Dunklin. 2010. Valley and Stream Habitat Restoration in the Lower Klamath Sub-Basin. Klamath Basin Science Conference. February 4th, 2010. Medford, Oregon.

Fiori, R.A. and S. Beesley. 2010. Mega Wood Loading Projects for Coho Recovery: How Do We Get There? Examples from North Coastal California. Salmonid Restoration Federation and American Fisheries Society Cal/Neva Joint Conference. March 13th, 2010. Redding, California.

Hillemeier, D., T. Soto, S. Silloway, A. Corum, M. Kleeman, and L. Lestelle. 2009. The Role of the Klamath River Mainstem Corridor in the Life History and Performance of Juvenile Coho Salmon (*Oncorhynchus kisutch*) - Year 2 Report May 2007 – May 2008. Report to the U.S. Bureau of Reclamation, Klamath Area Office, Klamath Falls, Oregon.

Silloway, S. 2010. Fish Surveys Related to the Proposed Del Norte Highway 101 Klamath Grade Raise Project. Yurok Tribal Fisheries Program, Klamath, California.

Yurok Tribal Fisheries Program. 2010. Lower Terwer Creek Streambank and Riparian Restoration - U.S. Fish and Wildlife Service – Tribal Landowner Incentive Program Project. Yurok Tribal Fisheries Program, Klamath, California.

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YTFP Klamath River Division

Green Sturgeon Telemetry

In 2009 we were able to capture and acoustically tag 4 green sturgeon in the Klamath River; in 2010 we were able to tag 20 green sturgeon. The acoustic tags we used were surgically implanted and have a ten year lifespan. These tags will allow us to record in–river movements of the sturgeon, as well as document how often these fish return to the Klamath River. Other researchers may also detect our tagged sturgeon as they migrate throughout the bays and estuaries of the Pacific Northwest. We started fishing in March and finished up in June. The largest fish we tagged was 7'4" and weighed 170 lbs.

In 2009 and 2010, we once again deployed our in-river array of acoustic receivers to detect and monitor the movements of tagged sturgeon. These receivers detect any sturgeon that we tagged in 2009 or 2010 and also pick up any sturgeon tagged in other locations (if their tags were still operational). We deployed seven receivers in the river and two more in the ocean just off the Klamath River mouth. Receiver locations in the river ranged from the estuary to the Salmon River.

A short report on our 2009 findings can be found at the Yurok Tribal Fisheries Program's Website (http://www.yuroktribe.org/departments/fisheries/FisheriesHome.htm).

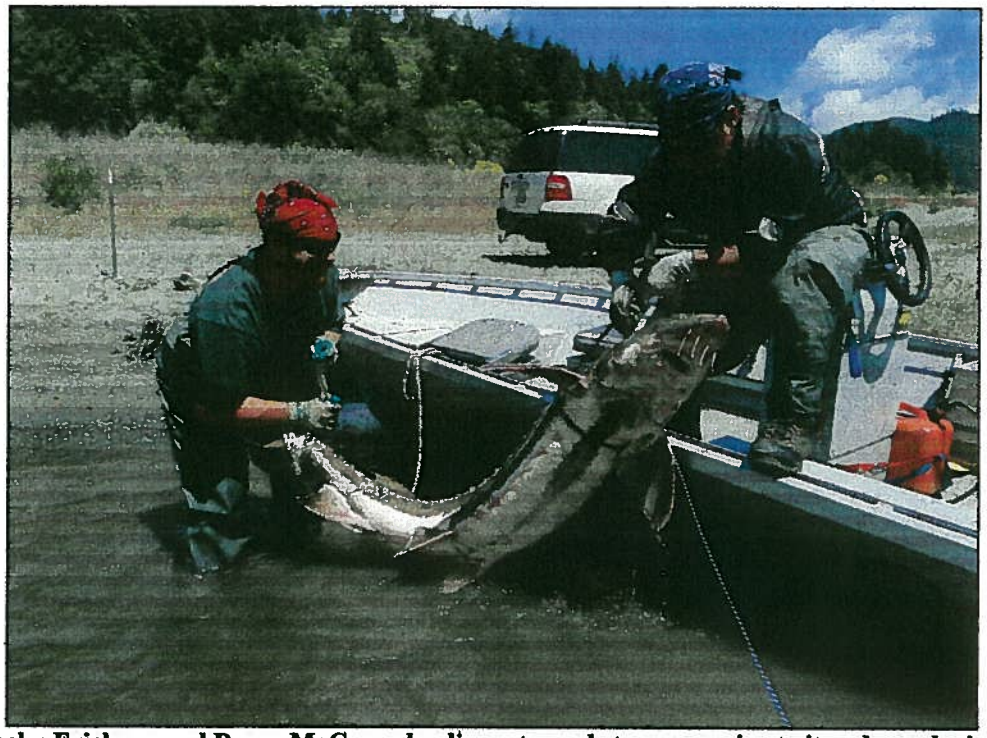

Figure 1: Rocky Erickson and Barry McCovey loading a tagged sturgeon prior to its release during the 2010 green sturgeon tagging project.

Figure 2: Barry McCovey and Rocky Erickson setting a gill net to capture green sturgeon during the 2010 tagging project.

Water Temperature Monitoring

In March of 2010 we deployed 12 water temperature monitors at various sites throughout the Klamath River Basin. These monitors are located from Iron Gate Dam to the estuary, including the Trinity, Salmon, Scott, and Shasta Rivers. These monitors record river temperatures every hour until we remove them when the high flows of winter arrive. The data collected during this study is forwarded to our funding agency and entered into our water temperature database, which dates back over ten years.

C. shasta QPCR water sampling

In the spring of 2010 we began to sample Klamath River near Tulley Creek for the presence of *C. shasta* spores. The fish disease *C. shasta* is a serious problem on the Klamath River, and kills a substantial portion of juvenile salmonids every year. Water samples are collected once a week throughout the entire year. The water samples are filtered in our lab and the filtered out material was sent to a lab at Oregon State University where it is tested for the presence and quantity of *C. shasta* DNA.

Klamath River Juvenile Fish Health

In 2010 the YTFP Klamath River Division assisted the U.S. Fish and Wildlife Service's California/Nevada Fish Health Center in a study on the prevalence of the fish diseases *C. Shasta* and parvocpsula in Juvenile Chinook salmon. These diseases infect a high percentage of juvenile Chinook as they migrate to the sea. We provided one of five crews that were working throughout the Klamath Basin on this project. We used a seine net to capture juvenile Chinook of hatchery origin. These fish were collected and sent to a lab in Anderson where they were analyzed for disease. We worked in the Shasta River to Scott River area at the beginning of the study, and slowly followed the fish downstream as they migrated to the sea. This project began in May and ended in mid-July. All data collected was forwarded to the USFWS Cal/Neva Fish Health Center.

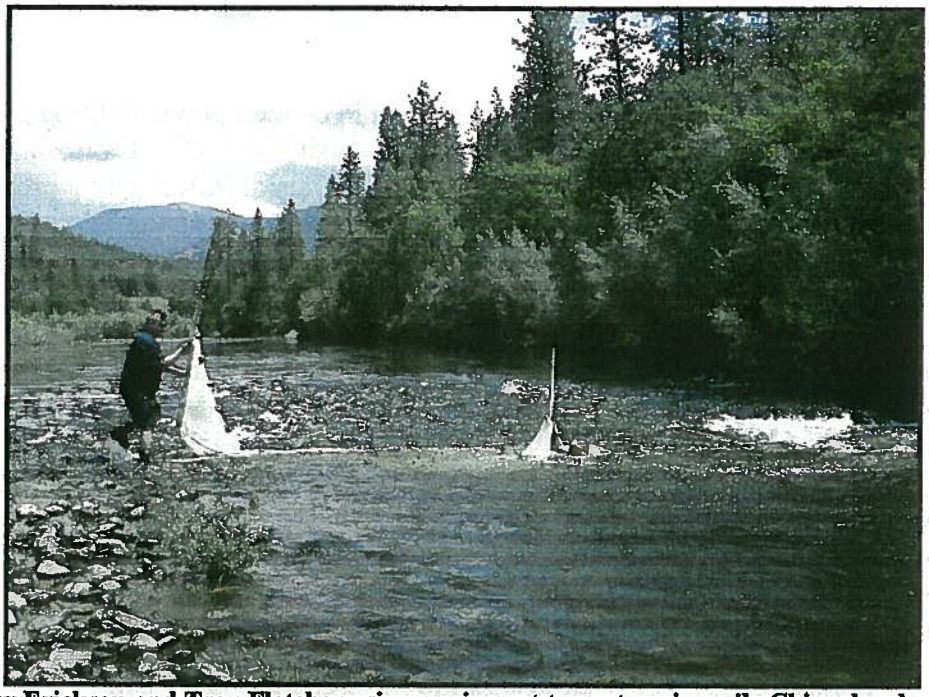

Figure 3: Rocky Erickson and Troy Fletcher using a seine net to capture juvenile Chinook salmon.

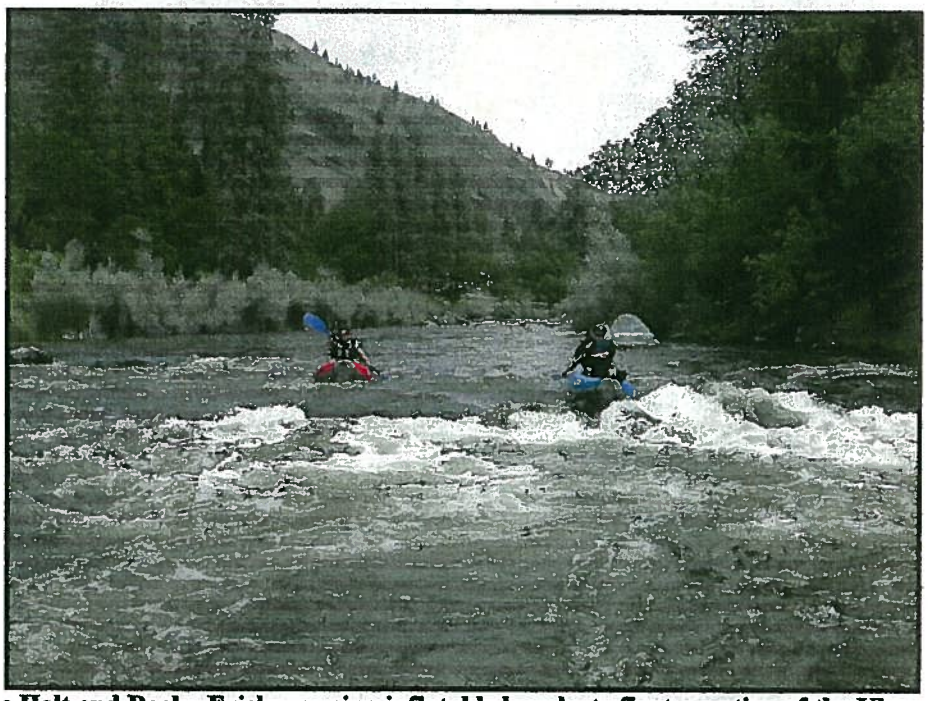

Figure 4: Jamie Holt and Rocky Erickson using inflatable kayaks to float a section of the Klamath River during the juvenile fish health project.

Polychaete Worm Investigations

This project was initiated in 2010 and is being conducted in cooperation with Oregon State University in Corvallis, Oregon, and Humboldt State University in Arcata, California. We are attempting to study the prevalence, location, and infection levels of Polychaete worms at various locations in the Klamath River between the Shasta River confluence and the Scott River confluence. Polychaete worms are a critical element in the life history of the fish disease *C. shasta*. The disease uses the worms as a secondary host (secondary to salmonids), and it cannot survive without them (the worms). We believe that the abundance of worms in the river could be correlated to the number of juvenile salmon that are infected with the disease. We are currently developing a state of the art prototype suction device that will allow us to collect large numbers of worms to study. This project is presently in the research and development stage, we hope to begin collecting worms in the near future. Once we have established our methods, we will be collecting polychaetes once a month, from various locations, for a one year time period. As an offshoot of this project, we also conducted our own small scale study in the Shasta River to evaluate the presence/absence of Polychaete worms. We conducted a floating survey of the lower twenty miles of the Shasta River, and did not find any worms.

Figure 5: Rocky Erickson using a suction device to collect Polychaete worms in the Klamath River.

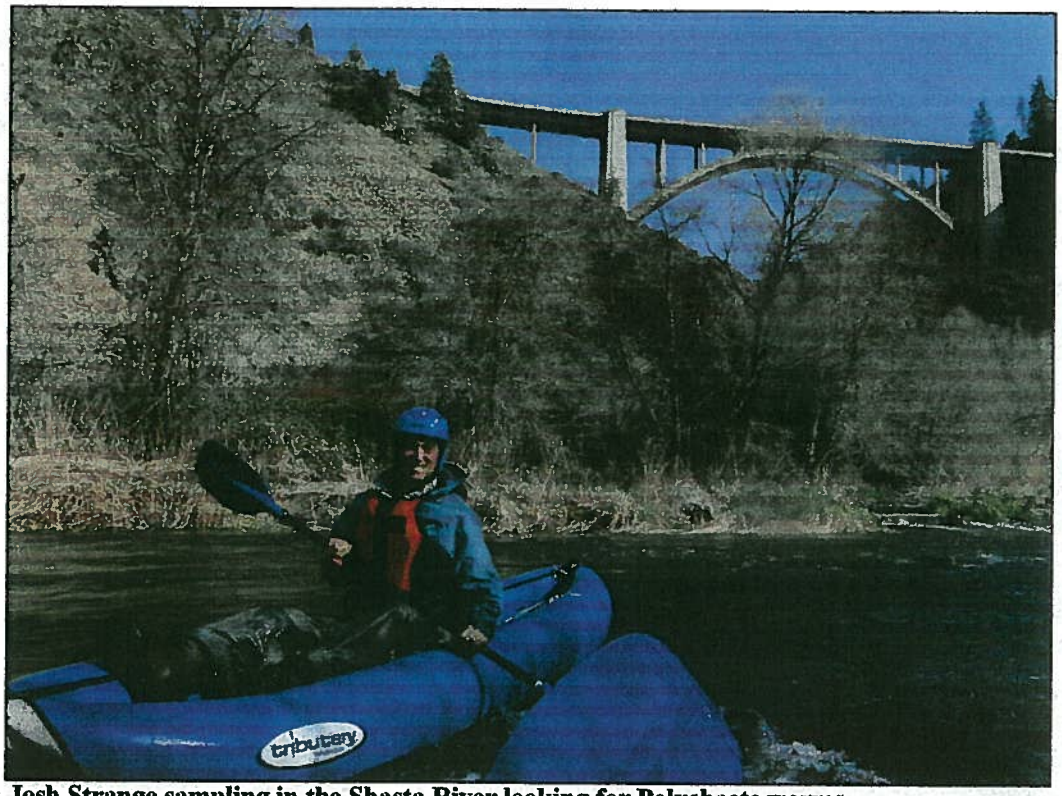

Figure 6: Josh Strange sampling in the Shasta River looking for Polychaete worms

Thermal Refugia Dives

2010 marks the ninth consecutive season that we are conducting our thermal refugia observation project. In the summer months, river temperatures can become elevated to a point that may be lethal to salmonids. When river temperatures reach these critical levels, salmonids will seek refuge in the cooler water that is found at the mouths of tributaries. We snorkel these areas to get an idea of how many fish are using them; we also evaluate the overall health of the fish we observe. We have four sites that we focus our efforts on each year, they are: Cappell Creek, Tully Creek, Bluff Creek, and Red Cap Creek. We began these surveys in July which is later than normal. This was due to the cooler than average river temperatures that were present in the early summer of 2010. This project is ongoing and will finish up at the end of August.

Figure 7: Adult Chinook salmon, juvenile Chinook salmon, juvenile steelhead, and suckers using the thermal refugia created by Bluff Creek during the summer of 2009.

Adult Chinook Disease Sampling

This 2009 study entailed capturing Chinook salmon at Weitchpec and examining their gills under a microscope for diseases. We have been conducting this project for seven years in cooperation with the YTFP Trinity River Division. We initiated this project in response to the 2002 Klamath River Fish Kill in which 68,000 salmon perished. This study allows us to monitor the levels of disease in adult Chinook as they migrate to their spawning grounds. We were looking for Ich (*Ichthyophthirius multifiliis*), and Columnaris (*Flavobacterium columnare*) which were the two fish diseases responsible for the 2002 fish kill. Preliminary results showed very few cases of Columnaris and no Ich. Over 200 adult Chinook were sampled, all of these fish were donated to elders and those in need. We plan to conduct this study again in 2010; we will begin in mid August. A detailed report on our 2009 findings can be found on our website (http://www.yuroktribe.org/departments /fisheries/FisheriesHome.htm).

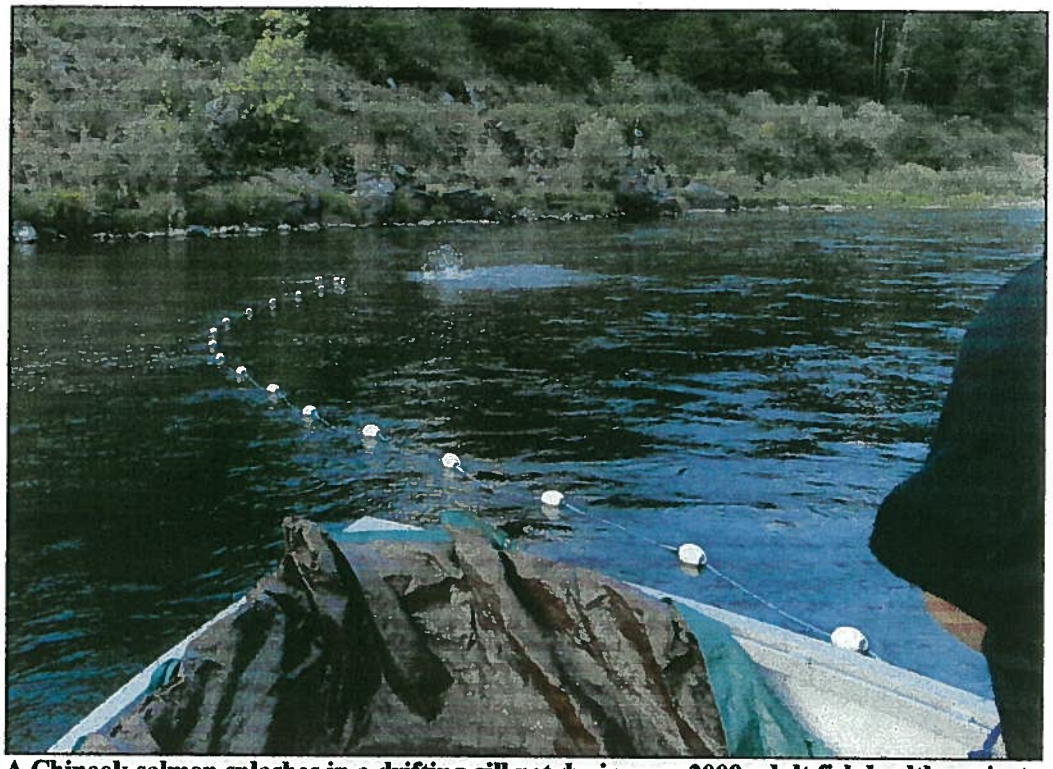

Figure 8: A Chinook salmon splashes in a drifting gill net during our 2009 adult fish health project.

Upper Klamath River Carcass Survey

Our annual collaboration in the Klamath River mainstem spawner abundance surveys started on October14th of 2009 in the vicinity of Iron Gate Dam. This project is extremely important in determining the size of future salmon runs. Our three person crew worked in collaboration with the US Fish and Wildlife Service. They floated different sections of the river on a weekly basis enumerating salmon carcasses, as well recording biological data. This project continued until early December. We will be continuing this project in October of 2010.

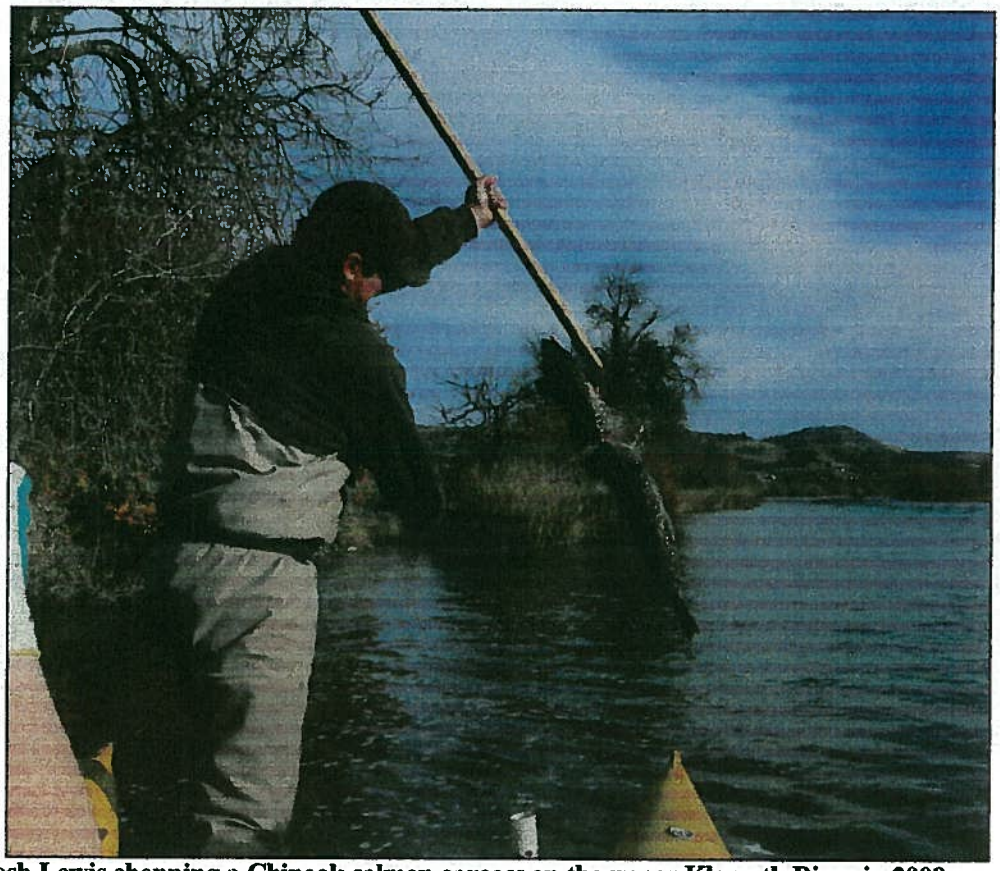

Figure 9: Josh Lewis chopping a Chinook salmon carcass on the upper Klamath River in 2009.

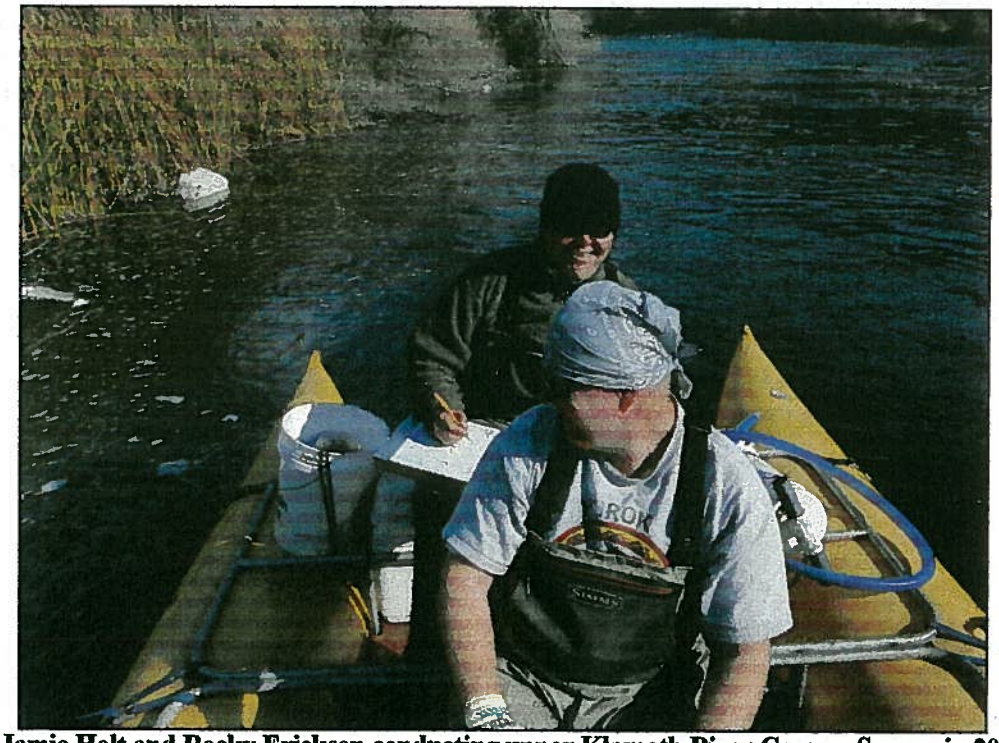

Figure 10: Jamie Holt and Rocky Erickson conducting upper Klamath River Carcass Survey in 2009.

Pacific Lamprey Radio Telemetry

This is a new project that we began in the spring of 2010. Very little is known about the spawning migration of Pacific lamprey in the Klamath River. In order to fill some of the gaps in our knowledge concerning eels, we initiated a radio telemetry study to track tagged lamprey as they migrated up the river. . We began capturing eels at the mouth of the Klamath River in March using dip nets. The captured eels were anesthetized and had a small radio tag surgically implanted into their abdominal cavity. These tags have a lifespan of over one year which will allow us to track the lamprey throughout the duration of their spawning migration. In other rivers eels have been observed spending up to a year in freshwater before spawning. One of the main goals of this study is to find out if Klamath River eels are doing the same thing. If our eels are in fact spending long periods of time in the river, they are being exposed to a host of water quality and water quantity issues. We were able to capture and tag 24 Pacific lamprey in the spring of 2010. We set up six monitoring stations to record when particular eels passed by. We also manually tracked by jet boat and road. As of July 30th we have detected 17 tagged eels from Tully Creek to Happy Camp on the Klamath, and as far as Junction City on the Trinity River. We plan to continue this study into 2011, or as long as it takes for our tagged eels to spawn and die.

Figure 11: Captured Pacific lamprey recover after having radio tags implanted into to their abdominal cavity.

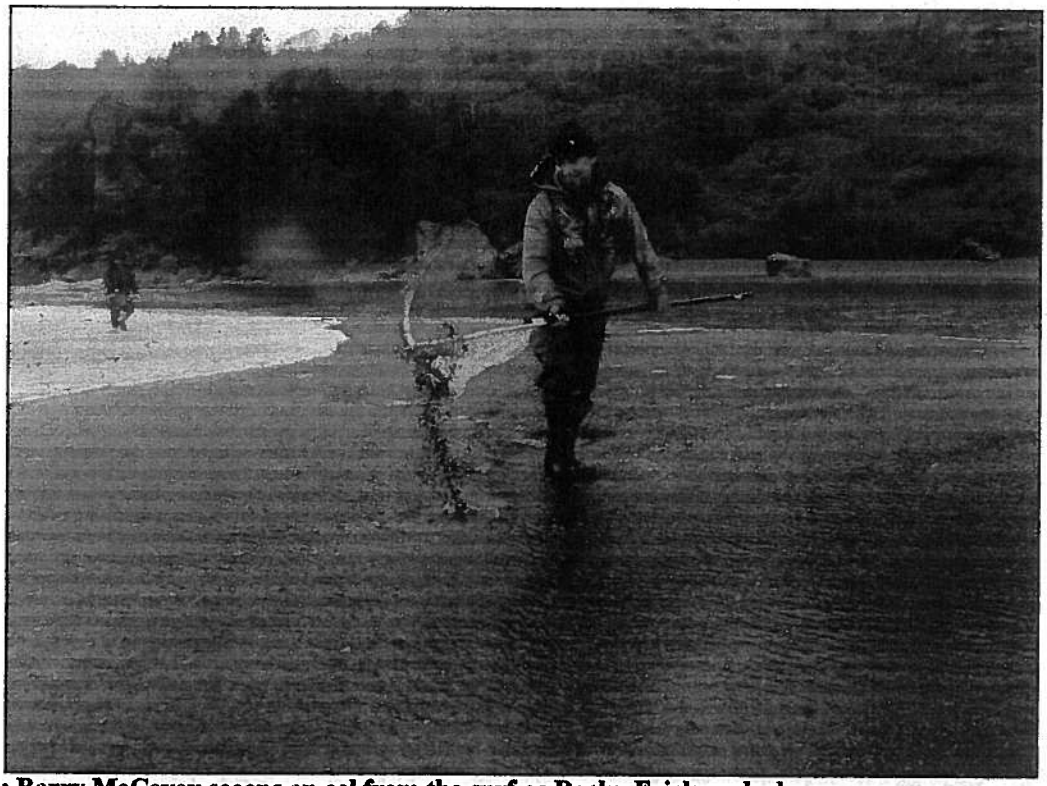

Figure 12: Barry McCovey scoops an eel from the surf as Rocky Erickson looks on.

Trinity River Fisheries Division

Trinity River Restoration Program Participation

The mission of the Yurok Tribal Fisheries Program, Trinity River Fisheries Division (TRFD) is to ensure the protection of Yurok Tribal fishing and water rights through restoration of natural populations of tribal trust fish species of the Klamath and Trinity River. The Yurok Tribe is an active partner in the Trinity River Restoration Program (TRRP). As a partner, the Yurok Tribe participates on both policy and technical levels to best implement the 2000 Record of Decision (ROD). The TRRP is guided by the 8 member Trinity River Management Council (TMC). The Yurok Tribe is a member of the TMC and works with other TMC members to develop the policy guidance to direct the restoration actions of the TRRP. The Trinity River Division works cooperatively with the TRRP staff and other TRRP partners to implement and evaluate restoration actions such as ROD flow releases, channel rehabilitation and coarse sediment augmentation efforts.

Trinity River Restoration Program: FY 2011 Science Proposal Process and TRRP Workplan

The Trinity River Flow Evaluation Study (TRFES) described the impacts of the Trinity and Lewiston Dam construction and operations and the strategy for restoring the Trinity River and its anadromous fish populations. The Integrated Assessment Plan v1.0 (IAP) was completed by the TRRP partners, including the Yurok Tribe, in 2009. The IAP is an integrated, multidisciplinary monitoring plan that describes the various scientific assessments needed to inform the TRRP if the TRFES restoration strategy is achieving the goals of the TRRP. In 2010, Senior Fisheries Biologist, Tim Hayden coordinated with other TRRP partners to implement a request for

proposal-based process (RFP) to determine, and prioritize the various scientific assessments to be funded by the TRRP in FY 2011. This is the first year that the TRRP has implemented an RFP process. The Yurok Tribe will continue to work with TRRP partners to refine the RFP process in FY 2012, and develop a prioritized science workplan for the TRRP.

Trinity River Flow Scheduling 2010

The ROD specifies annual release volumes based on five water-year classifications. Based on snow pack estimates and reservoir inflow estimates on April 1, the 2010 water year was classified as "Normal". Under the 2000 ROD Normal-year flow releases a total volume of 647,000 acre feet is available for instream flow purposes. The final 2010 Trinity River flow schedule recommendation (Figure 1.) was presented and approved by the TMC in April 2010.

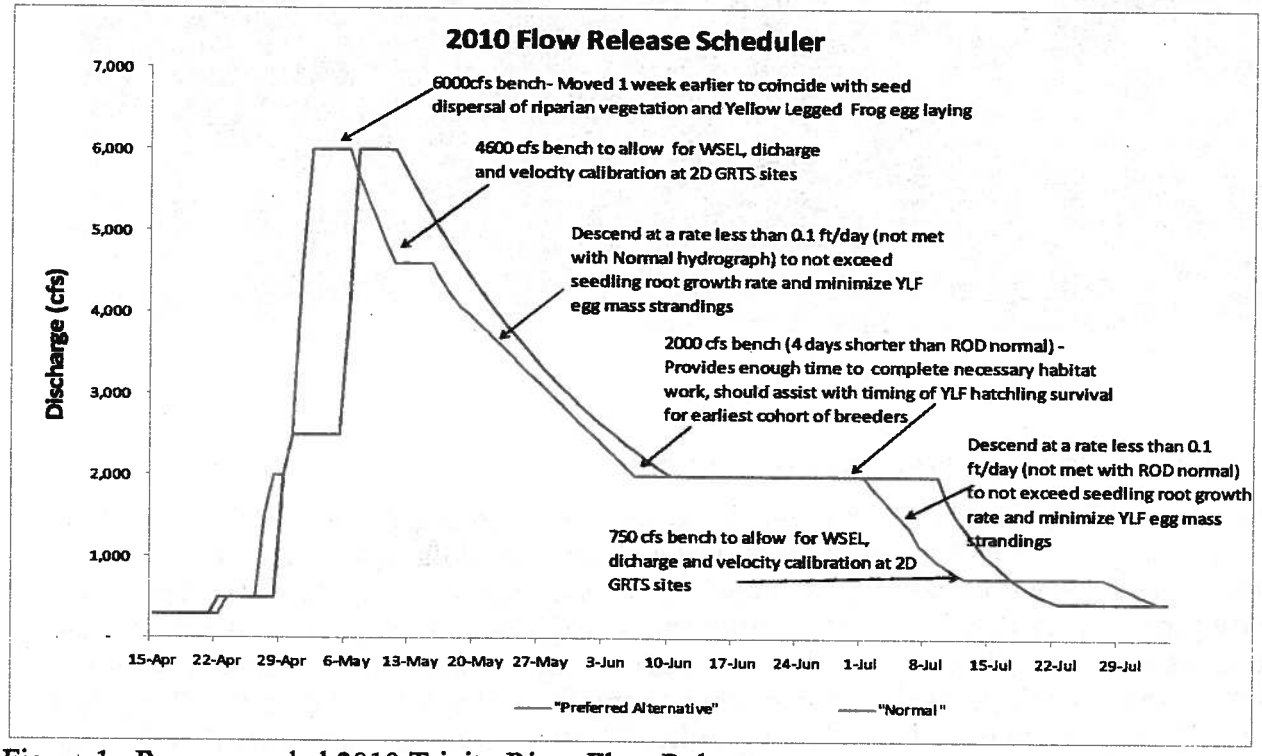

Figure 1. Recommended 2010 Trinity River Flow Releases.

TRRP Temperature Management Workgroup

Senior Fisheries Biologist, Tim Hayden participates with TRRP partners on the newly formed Trinity Temperature Management Workgroup (TTMWG). The group will consist of technical representatives from the TRRP partners that will develop technical recommendations to BOR Northern California Area Office and the BOR Central valley Operations (CVO) to manage Trinity River water supplies to achieve temperature objectives defined in the Trinity River Biological Opinion. The TTMWG will interact directly with CVO and the Sacramento River Temperature Taskgroup (SRTTG), and develop both in-river and reservoir temperature modeling capabilities. In addition, the group will provide management recommendations, including reservoir/diversion operations and infrastructure improvements to increase the operational

flexibility within the Trinity Division of the CVP to meet temperature requirements for salmonid species. The TTMWG will continue to meet throughout the next year.

Lower Trinity River Outmigration Monitoring

In order to monitor annual juvenile salmonid outmigration abundance, timing, duration and the effects of TRRP management actions, the Trinity River Fisheries Division operates and maintains 3 rotary fish traps on the mainstem Trinity River near Willow Creek, California. The season began March 15, 2010 with the installation of two traps. A third trap was installed March 20, 2009. Trapping operations began in March and have continued 24 hours a day, 7 days a week until late-August, or as weather and river conditions permit. Efficiency based population estimates will be generated to allow statistically quantified estimation of emigration by application of mark-recapture techniques. This will continue a long-term quantified data set for use in determining the response of smolt production to Trinity River restoration activities. An additional component to this year's effort is the use of 135,000 hatchery produced juvenile Chinook to expand the mark-recapture effort and perform assumption testing as recommended in the recently completed TRRP Outmigration Monitoring Review. In addition, high quality quantified emigration estimates of Trinity River juvenile salmonid production will be critical in calibrating future fish production models. Fish Biologists, Nate Harris and Warren Peterson serve as field crew leaders for this project, with assistance from fisheries technicians; Tim Ulrich, Hank Alameda Jr., Albert Markussen, Jeremy Alameda and Larry Alameda Jr..

Figure 2. Lower Trinity River outmigration monitoring trap site, near Willow Creek, California.

Channel Rehabilitation Site Pre-construction Habitat Assessment

In 2010, Fisheries Biologist II, Aaron Martin continued to help lead an interagency habitat assessment focused on the Upper Trinity River. The team carried on their focus on assessing changes in rearing habitat at restoration sites as well as development of a 2-dimensional fish habitat model. This included post rehabilitation mapping at the Lewiston 4 sites and Dark Gulch projects and pre-rehabilitation mapping at the Lowden and Reading projects. This summer, the crew will continue systemic assessment of habitat across the entire 42 mile project area. Using the GRTS sampling tool, the team will map 32 – 400m sites that are spatially distributed throughout the project reach and estimate available fry and juvenile habitat at summer base flow. The team is also going to compare physical channel characteristics with available habitat in an attempt to integrate physical and riparian measures with habitat.

Figure 3. Yurok Fish Habitat crew using GPS, Tablet PC and laser rangefinder offset to map edge habitat.

Lorenz Gulch Channel Rehabilitation Site Design

In 2010, Fisheries Biologist II Aaron Martin, and Rocco Fiori have led the Yurok Tribe channel rehabilitation site design team to develop conceptual rehabilitation designs for the Lorenz Gulch site. Using topographic surveys (performed by Yurok Land Management) and biological and geomorphic expertise, in-channel habitat features and engineered log-jams were designed and drawn into a CAD layer. We wrote up a design document outlining the objectives and features for HEC-RAS certification by Trinity River Engineering to assess flooding potential near restoration areas.

Mainstem Trinity River Chinook Salmon Redd and Carcass Spawning Survey

The Yurok Tribe, U.S. Fish and Wildlife Service, California Department of Fish and Game (CDFG) and the U.S. Forest Service have cooperated for the past 9 years to conduct annual surveys to monitor spring and fall-run Chinook salmon, redd abundance and spawning distribution (Figure 4). Beginning on September 15th and ending on December 24th, the 2009 fall spawning surveys were conducted by Fisheries Technicians, Jeremy Alameda and Larry Alameda. TRFD staff collected important data on pre-spawn mortality, length/weight and sex ratio, and spatial distribution of chinook salmon redds and carcasses. Coded wire and CDFG

floy tags were also collected from carcasses in order to determine adult migration rates and natural/hatchery contribution to adult escapement. In addition, in 2009 the Yurok Tribe conducted weekly surveys between Lewiston Dam and Junction City utilizing mark/recapture techniques to estimate the total Chinook salmon spawning escapement. This information is critical to the TRRP to assess the effectiveness of Trinity River Record of Decision (ROD) flow releases and other restoration actions on the health of salmon and steelhead populations.

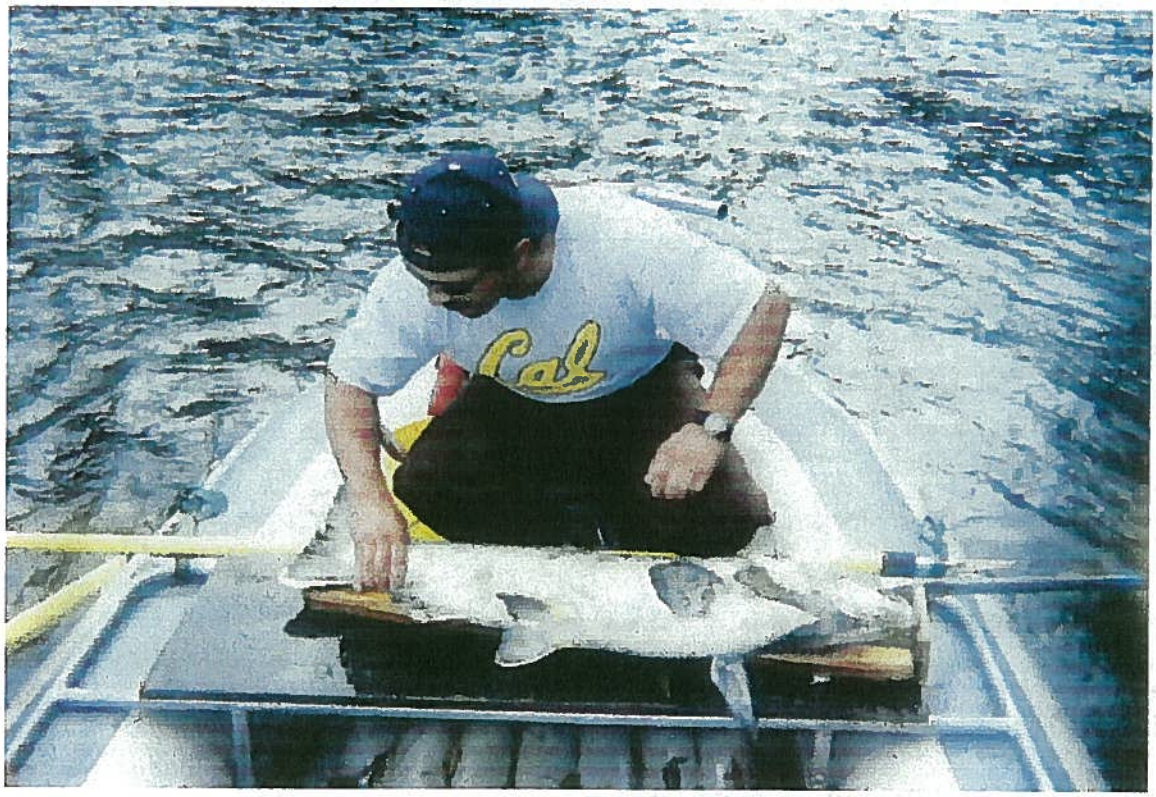

Figure 4. Yurok Fisheries Technician, Hank Alameda Jr. measuring adult fall Chinook salmon carcass on the upper Trinity River near Lewiston, California.

Trinity River Hatchery Co-Management

The Yurok Tribe is a co-manager of the Trinity River Hatchery located in Lewiston, California. The Trinity River Fish Hatchery (TRH) was constructed in 1964 as part of the Central Valley Project (CVP). The TRH is operated by the CDFG and has a production capacity of approximately 40 million salmonid eggs. The TRH is located immediately downstream of Lewiston dam (Figure 5) and serves to mitigate loss of upstream production of salmon of steelhead as a result of construction if the Trinity River Division of the CVP. As co-managers, the Yurok Tribe conducts investigative assessments of hatchery-natural interactions, with emphasis on predation, competition, and ecological interactions with naturally produced salmon and steelhead. Recent actions include re-initiation of tribal trust evaluation process to more clearly define tribal co-management of the TRH and integration of TRH operations and practices with ongoing TRRP fish habitat rehabilitation efforts in the mainstem to achieve natural salmon

and steelhead production goals.

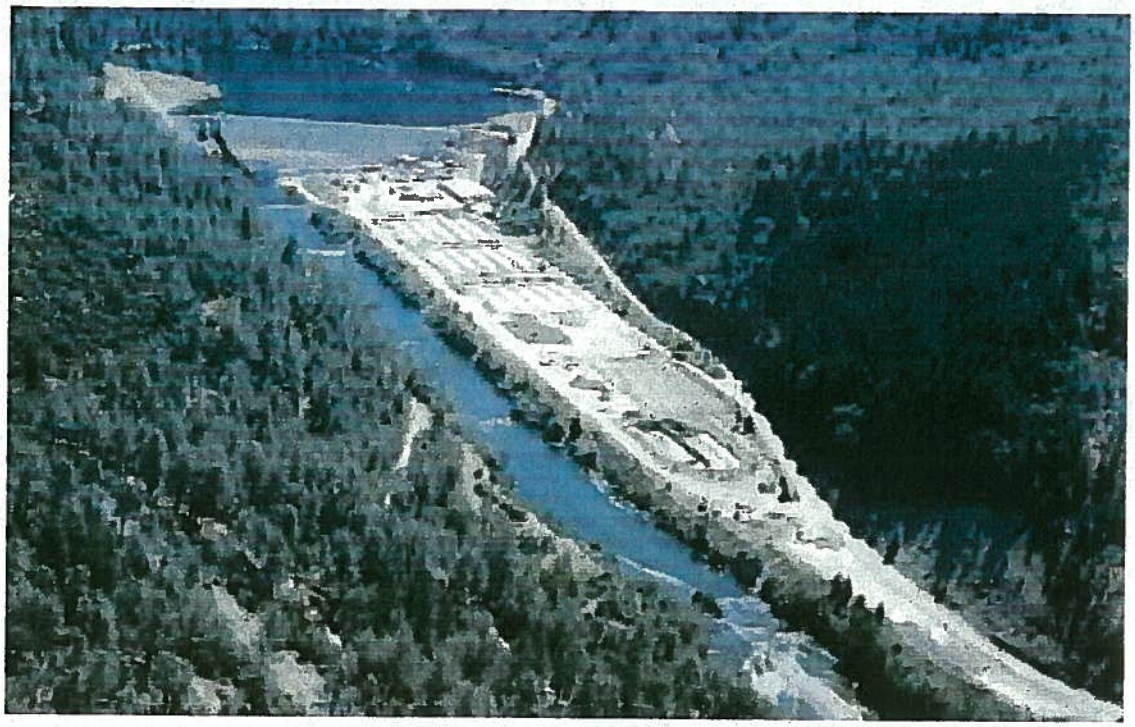

Figure 5. Lewiston Dam near Trinity River Hatchery, Lewiston, CA.

Trinity River Adult Steelhead Straying Assessment

In 2009, the TRFD initiated a preliminary study using a combination of Passive Integrated Transponder (PIT) tagging and radio-telemetry to assess the potential straying of hatchery produced adult steelhead. The purpose of this study was to provide feedback to TRH management in regards to current hatchery protocols and practices which may be detrimental to wild fish populations. Beginning in September 2009 and continuing through April 2010, Fisheries Biologist II, Shane Quinn and TRFD staff applied PIT and radio tags to adult hatchery steelhead captured at the Willow Creek fish weir or that had returned to TRH and subsequently released back into the Trinity River. The tagged steelhead were then tracked and detected at with PIT and radio telemetry receivers in various tributaries and in upper mainstem Trinity River. The tracking and monitoring of tags continued through May of 2010.

Figure 6. TRFD staff radio-tagged adult hatchery produced steelhead at the Willow creek fish weir in the fall of 2009.

Juvenile Chinook Salmon Fish Health Assessment

TRFD Fisheries Biologist, Kyle DeJuilio leads staff to collect samples of natural and hatchery juvenile Chinook salmon in the Klamath River below Weitchpec from May until mid-August. The TRFD has participated in this monitoring for the past several years as part of a basin-wide effort to assess the incidence and severity of fish disease outbreaks. The USFWS CA-NV Fish Health Center has performed disease monitoring studies in the basin since 1991, and observed high disease levels in juvenile Klamath River salmonids during the summer. Collected samples are processed by the USFWS Fish Health Center in Anderson. Yearly monitoring is intended to assess disease impacts and warn resource managers that action may be warranted.
In July, the YTFP 2010 sampling effort continued to target adipose fin clipped (ad-clip) hatchery Chinook juveniles. Two samples of 40 fish were collected by Trinity River staff and picked up by USFWS CA-NV Fish Health Center staff for further analysis. Ad-clip Chinook juveniles arrived in the sampling reach early in the month. Ad-clipped hatchery fish were prevalent and we were able to capture more than the required number for sampling. In past years the peak of the hatchery juvenile migration through this reach has occurred in July. The river has reached 22-23 C^{o}, and fish are beginning to seek out thermal refuges and show more clinical signs of disease. We expect catch of ad-clipped juveniles to slowly fall off until the end of sampling.

Harvest Management Division

Harvest Summary 2009

The Fishery was monitored from April 1 through November 30, 2009. The table below summarizes the estimated harvest by species. Approximately 15,460 fish were sold during the Tribe's commercial fishery.

	Estuary	Mid-Klam	Up-Klam	Total
Spring Chinook	758	489	451	1,697
Fall Chinook	19,533	2,464	2,343	24,341
Coho	57	1	21	80
Steelhead	73	39	79	190
Green Sturgeon	10	45	90	146
White Sturgeon	3	2	0	5

Age Composition Project/ stock projection

We led the fall Chinook age composition project for the entire Klamath Basin (the Hoopa Tribe covered the Trinity Basin). This project consist of : 1) collecting fish scales from fish from the fisheries, spawning grounds, and hatcheries; 2) cleaning and mounting the scales under a microscope, 3) projecting the scales so the age of the fish they came from can be determined, and 4) using the age information to determine the age of the 2009 fall Chinook run. We aged approximately 10,000 fall Chinook scales during 2009. This information was then used to predict the abundance of the 2010 fall Chinook run, which is used to determine the allocation for the various fisheries during 2010.

Pacific Southwest

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SHARE

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Author: Lisle, Thomas E.

Date: 1990

Source: In: M.G. Wolman and H.C. Riggs (ed.), Surface Water Hydrology, v. O-1, The Geology of North America, Geological Society of America. p. 311-314.

Description: The Eel River draining the Coast Range of northwestern California has the highest recorded average suspended sediment yield per drainage area of any river of its size or larger unaffected by volcanic eruptions or active glaciers in the conterminous United States (1,720 t/km 2 yr from 9,390 km 2 ; Brown and Ritter, 1971).

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US Forest Service - Research & Development
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Report Received Sep 8, 2010

THE EEL RIVER, NORTHWESTERN CALIFORNIA; HIGH SEDIMENT YIELDS FROM A DYNAMIC LANDSCAPE

Thomas E. Lisle

The Eel River draining the Coast Range of northwestern California has the highest recorded average suspended sediment yield per drainage area of any river of its size or larger unaffected by volcanic eruptions or active glaciers in the conterminous United States (1,720 t/km^{2}yr from 9,390 km^2; Brown and Ritter, 1971). These high rates of erosion and sediment transport result from a combination of widespread tectonic deformation of the underlying rocks, recent rapid uplift of the landscape, high seasonal rainfall, and widespread disruption of the ground surface by man in the last century. Not surprisingly, the basin has some unusual geomorphologic characteristics. Sediment-transporting processes on hillslopes and in channels are closely linked, and as a result, high-magnitude, low-frequency climatic events are more responsible for forming channels than in most other areas.

BASIN CHARACTERISTICS

Geology

The Eel River basin is underlain almost entirely by the Franciscan assemblage of complexly deformed, continental margin deposits of Late Jurassic to mid-Tertiary age (Bailey and others, 1964; Jones and others, 1978). The area has undergone uplift since mid-Miocene time (Bailey and others, 1964). Franciscan rocks are predominantly sandstone and shale, but also include tectonically emplaced blocks of volcanics and low-grade metamorphic rock. Bedrock has been pervasively sheared to various intensities over the basin. Zones of weakness trending generally north-northwest have created a trellis network of drainages. Narrow, deeply cut canyons incised below moderately dipping upper slopes, on which older soils are developed, attest to recent or ongoing uplift of the area, although local downwarping has formed isolated depositional basins in the Eel valley (Kelsey, 1982).

Hydrology

The Mediterranean climate of the area is conducive to the production of high sediment yields. Annual precipitation is heavy (averaging 1,500 mm basinwide and 2,800 mm at high elevations) and seasonal, with 90 percent falling between October and April. During winter, northern California has the highest latitudinal temperature gradients of any area in the Pacific Northwest (Janda and Nolan, 1979). This produces intense storms that commonly travel perpendicular to the trend of the Coast Range, which are as high as 2,000 m in the Eel basin. As a result, large cyclonic storms lasting several days have produced widespread rainfall totaling more than 250 mm on several occasions in the last 40 years (Harden and others, 1978).

Runoff from the basin, averaging 890 mm annually, is highly variable because of seasonality of rainfall, infrequent large storms, and poor retention of water in the basin. At Scotia (Fig. 24), the discharge equaled or exceeded 99 percent and 1 percent of the time equals 0.0004 $m^3sec^{-1}km^{-2}$ and 0.8 $m^3sec^{-1}km^{-2}$, respectively (Rantz, 1972). Most importantly from a geomorphic standpoint, large flood flows are generated by moderately intense rain falling over the entire basin for a number of days and, in some cases, by snowmelt during warm winter storms (Harden and others, 1978). Little flood runoff is stored in the basin due to the steep slopes and constricted valley bottoms.

Sediment yield

High suspended-sediment discharges from this area result from a combination of high sediment concentrations (averaging 3,000 ppm over discharge at Scotia; Holeman, 1968) and, particularly, high rates of runoff (Janda and Nolan, 1979). Gullying and mass movement accelerated by human disturbance of the erodible terrain provide inexhaustable supplies of fine sediment that can be carried quickly to stream channels (Nolan and Janda,. 1982). With increasing precipitation, there is greater surface erosion of broken ground in active earthflows and on soil bared by grazing, timber harvesting, and road building. Also, increasing soil moisture and erosion of toes of streamside slides and earthflows can accelerate mass movement directly into channels. Finally, high annual precipitation in the basin does not promote a denser protective cover of vegetation than in areas with less precipitation. Little of the precipitation falling in winter can be utilized for plant growth, and under natural conditions the basin is already well vegetated except on steep hillslopes along downcutting channels. As a result, sediment discharge increases with annual precipitation in the Coast Range (Janda and Nolan, 1979), unlike most other areas (Langbein and Schumm, 1958; Wilson, 1973).

Also unlike most areas, suspended sediment discharge per unit area in the Eel River increases with basin size (Brown and Ritter, 1971; Janda and Nolan, 1979). Because of ongoing uplift, main channels are commonly more deeply incised than their tributaries, and so streamside landslides, which are major sources of sediment, are particularly abundant along main channels. Parent material is generally soft and friable, and thus, bed particles rapidly break down into smaller sizes (Knott, 1971). Consequently, suspended-sediment load increases downstream at the expense of bedload (Brown and Ritter, 1971).

VARIATIONS IN GEOMORPHIC FORMS AND PROCESSES

The geologic complexity and youthfulness of the landscape are reflected in the variety of hillslopes and channels. Lithology and the degree of fracturing of the bedrock control local erosion rates, erosional landforms, and channel morphology (Janda; 1979).

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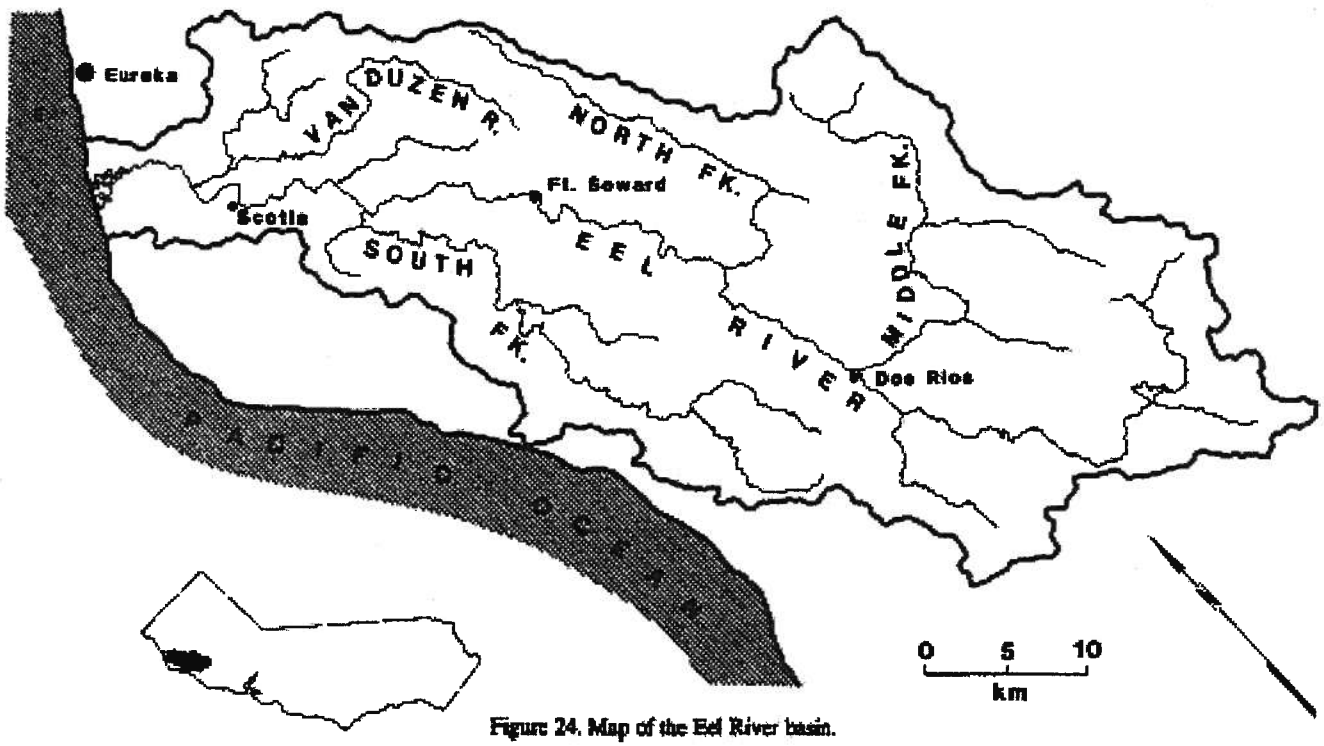

Figure 24. Map of the Eel River basin.

Mélange terrain

Highly fractured mélange units in the middle reaches of the Eel and Van Duzen basins contain abundant streamside slumps and earthflows that directly contribute large volumes of sediment to channels (Brown and Ritter, 1971; Kelsey, 1980). Estimated average annual sediment yield from a stream draining an earthflow is 24,000 t/km^2 (Kelsey, 1980)-about ten times that for the Eel basin as a whole. Sixty-eight percent of the suspended sediment discharge of the Eel River upstream of Scotia comes from 36 percent of the basin-the reach between Dos Rios and the junction with the South Fork (Fig. 24) - which contains the greatest areas of mélange, earthflows, and streamside slides (Brown and Ritter, 1971).

Most of the sediment from mélange terrain is sand or finer material eroded from toes of earthflows (Nolan and Janda, 1989) and from gullies cut on steep and disrupted hillslopes (Kelsey, 1980). However, earthflows that impinge on channels can contribute blocks of exotic material as large as 10 m and more in diameter and create extremely narrow, steep, coarse channels. These constrictions have led to the formation of depositional reaches upstream that have wide, alluvial channels and gentler streamside slopes. The alternation of these contrasting reaches produces large-scale steps in longitudinal channel profiles (Kelsey, 1980).

Competent terrain

Areas of more competent, graywacke sandstone are generally forested, have lower mass transport rates than mélange terrain, and contain "V"-shaped valleys with steep straight hillslopes. Debris slides and avalanches are the predominant sediment sources. These contribute abundant coarse material to channels, but maximum particle size is smaller than that from earthflows. Stream gradients are not unusually steep, and most coarse material entering from hillslopes can be transported downstream during annual floods. Average annual sediment yield from stable forested basins is estimated at 300 t/km2 (Janda and Nolan, 1979; Kelsey, 1980)-only about one-tenth of the average for the Eel basin.

Effect of land use

Although soils are generally permeable and stable on slopes less than 30° (Brown and Ritter, 1971), disturbance of the ground cover can greatly accelerate surface and mass erosion in both stable and unstable areas. Despite the low population density, large areas of the basin are affected by grazing, timber harvesting, or associated road construction. Loss of tree-root strength in uncohesive soils (Ziemer, 1981) has probably helped to destabilize clearcut hillslopes; grazing and the replacement of native perennial grasses by European annuals with shallower roots has probably increased gullying of grasslands (Kelsey, 1980). Anderson (1970) estimated that intensive timber harvesting and associated road building from about 1950 to 1975 increased sediment yields several fold. Nolan and Janda (1981) measured a 10-fold increase in suspended-sediment discharge from tractor-yarded clearcuts in tributaries of Redwood Creek. The coincidence of concentrated timber harvesting and a series of large floods, how

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ever, makes it difficult to separate the effects of these two impacts on erosion and sediment yield (Harden and others, 1978; Kelsey, 1980).

EFFECTIVENESS OF LARGE FLOODS IN SHAPING THE LANDSCAPE

Several authors have concluded that high-magnitude, infrequent floods have a greater impact on the landscape relative to smaller floods in northwestern California than in other areas (Janda and Nolan, 1979; Kelsey, 1980; Lisle, 1981; Nolan and Marron, 1985). During the flood of December 1964, rainfall recorded at more than 550 mm during 48 hr in some locations produced stages in the Eel River 2 to 5 m above previous records (Waananen and others, 1971; Brown and Ritter, 1971). Peak flood discharge of the Eel River near its mouth was 26,500 m^3sec^{-1}, corresponding to runoff rates of 2.82 $m^3sec^{-1}km^{-2}$. This flood ranks among some of the world's great recorded floods for a basin of this size (Wolman and Gerson, 1978). Kelsey (1980) estimated the recurrence interval of the 1964 flood in the Van Duzen River, a major tributary, at approximately 100 yr. The flood caused profound changes in sediment transport rates and long-lasting changes in hillslopes and channels. Some morphologic changes persist today.

Sediment transport by large floods

Large, infrequent flows transport a relatively large proportion of sediment in the Eel River. At three gaging stations in the basin, discharges below which 90 percent of the suspended sediment load is carried have recurrence intervals between 3 and 16 years (Nolan and others, 1987). At these stations, the proportion of sediment carried by discharges of given frequencies increases with decreasing frequency of discharge and reaches a node at moderate frequencies (recurrence interval of 1.2 to 1.6 yr), as observed in other regions. The proportion remains high for infre-- quent discharges at the Van Duzen station, however, and increases again with further decrease in discharge frequency at the Fort Seward and Black Butte River stations. At Black Butte River, a major tributary upstream of Dos Rios, the greatest proportion of load has been transported by the most infrequent discharges.

During the 1964 flood, 105 million tonnes of suspended sediment were transported past Scotia during a 3-day period, compared to 85 million tonnes transported during the previous 8 years (Brown and Ritter, 1971). The flood accounted for 7 percent of the total sediment discharge of the Van Duzen River during a 35-yr period, and mobilized as much bed load as moves out of the basin in a century (Kelsey, 1980). Suspended-sediment concentrations at a given discharge increased several-fold and remained high for 2 to 5 years after the flood (Anderson, 1970; Knott, 1971).

Effects on channels and hillslopes

One reason why large floods are so important in shaping stream channels in the Coast Range is that material mobilized from landslides during large storms is commonly carried directly to stream channels instead of to lower hillslope sites or valley flats. Air photos of the basin taken before and after the 1964 flood (Fig. 25) show increased incidence of new landslides and long reaches of greatly widened channels (Brown and Ritter, 1971; Kelsey, 1977). For instance, the length of stream banks affected by debris avalanches increased 423 percent in the upper portion of the Van Duzen basin and 119 percent in the lower portion (Kelsey, 1977). Voluminous coarse debris from debris avalanches and torrents led to widespread channel braiding, channel widening commonly more than 100 percent, and aggradation more than several meters in some reaches (Hickey, 1969; Brown and Ritter, 1971; Knott, 1971; Kelsey, 1977). In areas where landslides were voluminous, aggradation and channel-widening downstream caused additional streamside failures by erosion of supporting material at the base of hillslopes (Kelsey, 1977; Janda and Nolan, 1979).

In addition to widening, channels adjusted to the increased sediment load by reducing bar-pool bed topography and thereby reducing hydraulic friction (Lisle, 1982). As a result, velocity increased and depth decreased at a given discharge, signifying an increase in bed-load transport capacity (Knott, 1971; Lisle, 1982). These adjustments may have accelerated the flushing of excess material from the channel networks. Associated changes in aquatic habitat may have contributed substantially to the decline in populations of anadromous salmonids in the basin (California Department of Water Resources, 1974).

Channel recovery

The 1964 flood appears to have been effective in shaping stream channels of the Eel basin, according to Wolman and Gerson's (1978) criteria, because the changes have persisted in some reaches up to the present (Lisle, 1981; Kelsey and Savina, 1985). In some reaches, channel patterns and flood deposits along the higher margins of channels will be altered little until a flood of equal or greater magnitude recurs (Kelsey, 1977).

Channels have recovered in overlapping stages dependent on a sequence of processes. First, suspended-sediment concentrations declined to pre-flood levels within about 5 years. Second, as excess bed material has been transported downstream, channel beds have degraded to stable levels at or above pre-flood elevations over periods of a few years or longer, and some reaches may remain aggraded into the next century (Kelsey, 1980; Kelsey and Savina, 1985; Lisle, 1981). These periods depend apparently on the volume and coarseness of aggraded material, channel gradient, and distance from sediment source. During channel-bed degradation, hydraulic geometries have recovered to some degree

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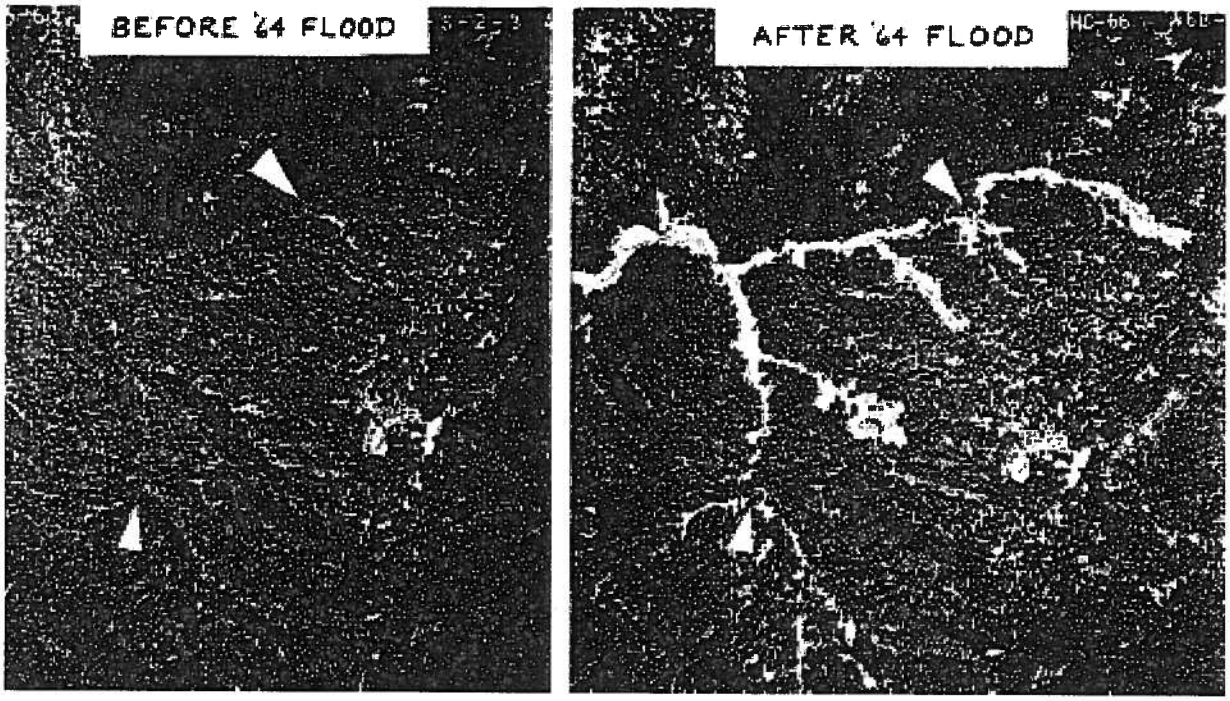

Figure 25. Aerial photographs taken in summers of 1963 and 1966 of the headwaters of the South Fork Van Duzen River, showing changes due to the 1964 flood. (From Kelsey, 1977, with permission). The white arrows identify the same channel reaches on both photos. Lighter areas in the 1966 photo were devegetated by debris avalanches, debris torrents, and widened, aggraded stream channels.

to pre-flood relations. The degree of recovery apparently depends on reestablishment of pre-flood channel widths (Lisle, 1982)--the third phase of channel recovery. Channels in alluvial reaches have incised into flood deposits, leaving a narrower channel bounded by sparsely vegetated flood deposits. Many tributary channels that are bounded on at least one bank by bedrock or colluvium have remained wide, however. Soil creep and dry ravel can be slow in replacing eroded banks, and new bank material is frequently scoured by high flows contained in narrow valley bottoms (Lisle, 1981). Riparian vegetation (primarily red alder and willow), which aids bank accretion along low-flow channel margins, is also subject to scour during high flows. Riparian trees are now well established along many reaches, however, due to the absence of large floods since 1975.

CONCLUSIONS

Erosive bedrock, rapid uplift, high seasonal rainfall, and recent disturbance by man have produced exceptionally high sediment yields from the Eel River basin. Because channels are commonly bounded by hillslopes in narrow valleys, channel morphology and sedimentology are strongly influenced by adjacent hillslope processes, which vary with the lithology and degree of shearing of bedrock. Because of the close linkage between channel and hillslope processes and the occurrence of high runoff events, large floods produce and transport a large proportion of fluvial sediment and cause widespread, persistent changes in channels. Subsequent remolding of channels by smaller discharges proceeds with the transport of excess sediment out of channels and the reconstruction of streambanks. These sequences of channel recovery can require as long as several decades.

Submitted 08/29 Shelter Cove

(672)

To: Ken Wiseman; Executive Director MLPAI
Melissa Miller-Henderson; Program Manager MLPAI

From: Citizens Alliance - wishing to vote for no additional MPAs in the North Coast Region allowing only the existing Punta Gorda State Marine Reserve.

We the undersigned represent a large group of disenfranchised, directly affected stakeholders, who would like to propose no expansion of the existing MPAs in the North Coast region, an option that has been excluded from stakeholder proposals. We would also propose the State protect existing MPAs from mineral extraction, aquaculture, pollution, energy farms and other damaging manmade effects.

Print Name	Signature	Town	Occupation
Joseph Arlotta	Joseph Arlotta	Shelter Cove	Tractor launch.
Serena Silva	Serena Silva	Shelter Cove	Student
Justin Abramson		Antelope	Unemployed
Scott Bishop		Whitethorn	Self Empley.
Byron Miller		Shelter Cove	Retired
Craig Eubanks		Shelter Cove	Retired
MARC PHIPPEN		EUREKA	BUILDING INSPECTOR
ROBERT MALUGIN		EUREKA	RETAIRED
Jaleen Persall	J Persall.	Shelter Cove	House keeper
Barbara Dingler		Shingle Spring	psychotherapist
John Bigham		Shingle Springs	Psychotherapist
Brandon Larsen		Fortuna	Caltrans
Travis Apo		Eureka	Hydrologist
ORLANDO ROCHA		Winters	BIOLOGIST.
VALERIE LILLIE		Redlieaf	File Maintenance
BEN FIESSLER		WHITETHORN	Surfer
BEN MITTEN		SHELTER COVE	BUILDER
STEVE SPENCE.		MCKINLEYVILLE,	BUILDER.
Chad Ebbert		Shelter Cove	MASON
[illegible]		SACRAMENTO, CA	Advertising
TARA SHININGSTAR	Tara Shinington	Shelter Cove, CA	yoga inst., massage therapist
Tobe Halton	Tobe Halton	Shelter Cove CA	carpenter
Dennis Sullivan		Shelter Cove	Resident/Retired
Jim Hovsepian		DAVIS, CA	Builder/Fisherman
Denise Reid		shelter cove	Cook

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Print Name	Signature	Town	Occupation
Julieann Groves		Garberville	Florist
Bruce Groves		Salmon Creek	Contractor
Jim Shiraishi		Salmon Creek	farmer
Joshua C. Clock		Miranda	Contractor
Jill Girard		Miranda	RN
Mea Coulter		Miranda	Super model
Rae Shiraishi		Salmon creek Miranda	farmer
Teresa Hernandez		Eureka	Special needs Aide
Michelle Bushnell		Blocksburg	School Bus driver
Paul Nemetti		Ettersburg	Handyman
Cynthia Miller		Shelter Cove	Waitress
Victor J Coone		Susanville CA	C/O
Tanya Thompson		Shelter Cove	Housekeeper/cook
April		Eureka	fisherman
Felisa Wrgonen		Shelter Cove	CEO
Carlene Mann		Glenn. CA	Farmer
Hoyland Kersh		Whitethorn Ca	Author
Kathy Cannon		Ca	Kathy Cannon
Cheri K Frederickson		Hoopa Bch. CA.	N.P.O. Director
Tom Wing		298 Parkview	SHCS
Lesley Wing		298 Parkview Shelter Cove	Web Design
Pat Tarabanovic	PAT TARABANOVIC	209 Bambini	Retired
Diane Donnelly	Diane Donnelly	Scotia	Retired
Wm Donnelly		Scotia	INS AGENT
Thomas Simpson		Shelter Cove	Carpenter

To: Ken Wiseman; Executive Director MLPAI
Melissa Miller-Henderson; Program Manager MLPAI

7-19-10

From: Citizens Alliance - wishing to vote for no additional MPAs in the North Coast Region allowing only the existing Punta Gorda State Marine Reserve.

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Print Name	Signature	Town	Occupation
Maggie Appel	Maggie Appel	shelter cove	Landscape
Dan Gomes	Dan Gomes	Eureka	Unemployment
Chris Hanson	Chris	Loma Linda	RN
MARTY FLORA	Marty Flora	Shelter Cove	potter
CARLO BONIORE	Carlo Bonore	"	RETIRED
W.H. TOBECER	W.H. Tobeler	"	Retired
WW McCURRY	Wm W McCurry	"	"
Bill Krop	Bill Krop	OAKEX MA	V
KEN WRIGHT		SHELTER COVE	CAMP HOST
Yvonne Spencer	Yvonne Spencer	Arcata, CA	disabled
JERRY R. HOLLOWELL	J. Hollowell	BISHOP CA	RETIRED
Linda Hallowell	Linda Hallowell	Bishop Ca	Retired
Jerry Knapp	Jerry Knapp	Bishop, CA	Retired
LINDA LEE KNAPP	Linda Lee Knapp	Bishop, CA	Retired
Barbara Pitcher	Barbara Pitcher	Arcata, CA.	Childcare Provider
Darrell Pitcher	Darrell Pitcher	Arcata CA	Marine Welder
Katelyn Wingert	Katelyn Wingert	Hayfork CA	High School
Karlie Elliott	Karlie Elliott	Hayfork, CA	High School Student
JEFF FISHER	Jeff Fisher	INCLINE VILLAGE NV	PILOT
BILL FISHER	Bill Fisher	MAGALIA CA	COST ANALYST
Drake Fisher	Drake Fisher	Paradise CA	Student
Wendi Jensen	Wendi Jensen	Colfax, CA	TEACHER
Mariah Boyt	Mariah Boyt	"	
JIM SHARY	Jim Shary	Chico, CA	Engineer
SANDRA McSHAN		pollock pines CA	Sales

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Print Name	Signature	Town	Occupation
corey mcmurray	corey mcmurray	Shelter Cove	unemployed
A.J. MACHI	A.J. Machi	Shelter Cove	Water Tank Installer
Adam Hammack	Adam Hammack	Shelter Cove	Welder
Erin Hammack	Erin M. Hammack	shelter cove	—
April Hammack	April Hammack	Shelter cove	Student
Kristin Hammack	Kristin Hammack	Shelter Cove	Student
Dana Drummond	Dana Drummond	Shelter Cove	tractor driver
Robert King	Robert King	Arcata	Construction
[illegible]	[illegible]	Arcata	Construction
Kody King	Kody King	Arcata	Construction
Josh Bancroft	[illegible]	Arcata	Student
Amanda Rose	Amanda Rose	Shelter Cove	mom
John Neill	John Neill	Shelter Cove	BACKHOE
THOMAS CARDOZA	[illegible]	GARBERVILLE	FISHERMAN
Danielle Sigurdson	Danielle Sigurdson	~~Shelter Cove~~	teacher
Ted Blair	Ted Blair	Shelter Cove	operator
Therin Blair	therin Blair	Shelter cove	Kid
Kayden Blair	Kayden Blair	Shelter cove	Kid
Jonathan Jeffers	Jonathan Jeffers	Shelter Cove	Fishermen (SC) Commercial
Brenden Drewry	Brenden Drewry	Redway	Fisherman
Gene McGrath	Gene McGrath	Watsonville	Wastewater
John McGrath	John McGrath	Honeydew	Biologist
Jerry Van Laanen	Jerome Van Laanen	Shelter Cove	retired
[illegible]	[illegible]	Shelter cove	Const.
Jenn Tobeler	Jenn Tobeler	SHELTER	Cove

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Print Name	Signature	Town	Occupation
Cassidy Etter		Shelter Cove	firefighter
Rodney Morris		Shelter Cove	Fisherman
Jared Morris		Shelter Cove	Deckhand/Fisherman
Tom Boyd		Shelter Cove	Contractor
Trent Slate		Shelter Cove	charter captain
William Anderson		Shelter Cove	carpenter
William Hubbard	William Hubbard	Bridgeland	Fisherman (SC) (COMM)
	Kevin Riley	Shelter Cove	FISHERMAN (CHARTER BOAT)
Reta Riley	Reta Riley	Shelter Cove	Teacher's Aide
Ed Ulrich	Ed Ulrich	SHELTER COVE + Sonoma City	Retired
TAMi Savage		Shelter Cove	Resident
John Armstrong		Shelter Cove	Carpenter
Pam Armstrong		Shelter Cove	Housewife
Colin Wilson		Whitethorn	Retired
Kenny Drummond	Kenny Drummond	shelter cove	carpenter
William Malinowski		Shelter Cove	Contractor
Chris A. May	Chris A. May	" "	Fisherman (SC COMMERCIAL)
Terry Neubert			
James Robinson		Shelter Cove	Retired
Charlene Doty		Shelter Cove	Cook
Paul Doty		Shelter Cove	body work
Sarah Finley		Shelter Cove	Bookkeeper
Julie Mooney	Julie Mooney	Shelter Cove	Clerk
Reece McClusky	Reece McClusky	Shelter Cove	Cook
Lucas Sack	Lucas Sack	Shelter Cove	handy man/Fisherman (SC COMM)

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Print Name	Signature	Town	Occupation
Frank Humphrey	Frank H Humphrey	Redway	Commercial Fisherman (SC)
HANK TOBORG	HANK TOBORG	PHILLIPSVILLE	RETIRED
GEORGE BENNETT	[illegible]	Redway	Ret
Aaron Doyle	[illegible]	shelter cove	construction
Tait-lyn Reese	Tait-lyn Reese	Ettersburg	Store stocker
Waylon Menzie	Waylon Menzie	Leggett	Truck Drive
Christa Wisneski	Christa Wisneski	Redway	musician
Darren Brown	Darren Brown	Miranda	Retail Sporting Goods
Jeff Blais	[illegible]	Miranda	Guide
Charlotte Johnson	Charlotte Johnson	Garberville	Disabled
Shawnee Wood	Shawnee Wood	Garberville	Housewife
Jackson Wood	Jackson Wood	Redway	Truck Driver
Bert Thomas	Bert Thomas	Garberville	Stump Grinder
Rick Spears	[illegible]	" "	CONST. MGMT.
Bill Huck	Bill Huck	Redway	Const
Steve Huck	Steve Huck	Redway	Truck driver
A. W. Huck	A. W. Huck	Redway	Logger
[redacted]			
Eric Moore	Eric Moore	Redway	logger
Frank E Miller	Frank E Miller	Garberville	construction
Michael J. Pogue	[illegible]	Wcott	CA State Parks
Dan Gilbert	[illegible]	REDWAY	plumber
Daniel Arias	Daniel Arias	Alderpoint	Shoe Repair
Bryan clary	Bryan clary	palo verde	construction
Nicole Walker	Nicole Walker	Garberville, CA	self-employed
DAVID RHOBY	David P Rhoby	Shelter Cove	Recycler

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Print Name	Signature	Town	Occupation
SUSAN SACK		SHELTER COVE	SECRETARY/FISH WIFE
Todd Nuse		Shelter Cove	POWER LINEMAN
Lygle Dillon		Shelter Cove	Tree Climber
Bud Lair		shelter cove	RID CONSTRUCTION LABORER
ANTONETTE LAIR		SHELTER COVE	OFFICE CLERK
Richard Culp		Shelter Cove	Civil Engineer
FRANK KAMBISH		SHELTER COVE	CLERK METER READER
ROGER BOEDECKER		SHELTER COVE	RETIRED EDUCATOR
RICHARD MONTANTE		SHELTER COVE	SHELTOU COVE INN OWNER
DAVID GILCHRIST		SHELTER COVE	CONTRACTOR
Bogdan Lacabanovic		Shelter Cove	Retire
Gina Fraslie		Shelter Cove	Hairdresser
DJ MICLETTE		GARBERVILLE CA.	ELECTRICAL SUPERINTENDENT
Joseph Michael Pagret		Shelter Cove	Contractor
Nancy Mitchell		Shelter Cove	State Employee Ret.
MARK MITCHELL		Shelter Cove	CA. State Employee
MIKE CALDWELL		SHELTER COVE	INN KEEPER
Vicky Lodia		Shelter Cove	PG&E-NCElectric
Frank Wilson		Shelter Cove	Utility Worker
LaDonna Byers		Shelter Cove	retired
Kathryn Lair		Shelter Cove	retired
BRIAN Speelman		MIRANDA, CA	CONSTRUCTION
Charles F. May		Shelter Cove	FISHERMAN
Hannah K. NUSE		Shelter Cove	student
Anika Andres		Shelter Cove	Massage therapist

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Print Name	Signature	Town	Occupation
Fred Grundman		Rio Dell	Business owner
PAUL GRUNDMAN		RIO DELL	GUNSMITH
LEE IVES		McKinleyville	Lumber Sales
James B. Motarde		Rio Dell	Retired
George S. Owsley Jr.		Fortuna	Vacuum Sales & Repair
LEROY MARTINELLI		RIO DELL	RETIRED
GARY G. RENNER		FORTUNA	RETIRED
Steven T. Deike		Fortuna	controller
Chris Freeman		Bayside	Controller
Dave Kitt		EUREKA	Retired
Colby Edgings	Colby Edgings	Weott	Carpenter
William Edgings		Weott	Tree Faller
Alan D. Yost		Eureka	Salesman
Edward S. Smith		Fortuna	Retired
LELAND E. BARNES		FERNDALE	RETIRED
DALE R. TOMPKINS		Hydesville	RETIRED
WARREN JACKSON		N. OLEN	RETIRED
Robert N. Hansen		McKinleyville	Ret'd Aerospace Eng
DAMIAN BERTAIN		FORTUNA	TELEPHONE CO.
MICHAEL BURNS		RIO DELL	ME
DAVID C. STRAIT		COBB	COUNSELOR
DENISE SWEANEY		Rio Dell	Retired
STAN GRUNDMAN		RIO DELL	CPA
AARON MANSON		EUREKA	OPERATOR
DALE S HARVEY		Rio Dell	Fisherman/Mariner

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Print Name	Signature	Town	Occupation
Jerry D. Chapman		Paradise CA	Investment Broker
DUSTIN CRONIC		LAYTONVILLE, CA	FARRIER
DANIEL YORK		SHELTER COVE	RETIRED
BrendenSeamens		Eureka CA	Fishermen Commer
MATT DALLAM		Eureka, CA	Fisherman Commerc
JIM MINDUS		EUREKA CA	WHOLESALER
RICHARD MURRAY		WHITETHORN	RETIRED
Vicki Morris		Whitethorn	Retired
Carrie Hebard		Shelter Cove	Unemployed
Dakal Uribe		Shelter Cove	School Student
Dayle Coyne		Eureka	student
LaVonne Moser		Petrolia CA	Retired Realtor
Debra Salvucci		Shelter Cove	Bkpg Consulting
Barrett Skinner		Shelter Cove	Unemployed
Mariah Garo		West Sacramento	Biologist
	Jay Doc Carr	Colusa, CA	"
Susan L. Fox		Shelter Cove	Retired
JAMES DOTT		Shelter cove	mechanic
DAVID COCKING		SHELTER COVE	RET
Janice Zaugg		Shelter Cove	Retired
MICHAEL Simpson		Shelter Cove	Construction
	Josh Moody	Miranda	coffee
JESSE QUIJANO	Jesse Quijano	WEOTT	UNEMPLOYED
JOHN Nanzig		Shelter Cove	self emp.
Steve Schon		Shelter cove	self

To: Ken Wiseman; Executive Director MLPAI
Melissa Miller-Henderson; Program Manager MLPAI

From: Citizens Alliance - wishing to vote for no additional MPAs in the North Coast Region allowing only the existing Punta Gorda State Marine Reserve.

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Print Name	Signature	Town	Occupation
Glenn Lally		Fields Landing	Self Employed
Richard Jioras		McKinleyville	Retired
Lloyd Hayes		San Jose	" "
Curtis Sorensen		McKinleyville	Retired
Darren Frazer		McKinleyville	Lineman
James Holland		Loleta	Retired
Andrew Bates		McKinleyville	Construction
Kris Sundeer		Bayside	Real Estate
Babett Matson		Mad River	Rancher
Kevin Wright		Oroville	Water Surveyor
Ronnie Fells		Eureka	" "
David Cox		Fieldbrook	Sales
Adam Gustafson		Eureka	Hiking Guide
Mary Katharyn Gleason		Eureka	Server/Student
~~Edward S. Smith~~		Fortuna	~~Retired~~
Jason Mein		Eureka	Cook
Graham Johnson		Mckinleyville	General Contractor
Gilbert H Walton		Fortuna	Retired
Brice Dust		Eureka	Guide
Robert Williams		Eureka	Construction
Troy Pastori		Garberville	Construction
~~Allen Hutton~~		Redding	Grocery Clerk
Donald Smith		Redding	Truck Driver
Ken Balbo		Ventura	Teacher
Mike Nerat		Eureka	Contractor

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Print Name	Signature	Town	Occupation
V. Diane Adams	V. Diane Adams	Shelter Cove	Retired Clerk
[illegible]	GARY WILCOX	WHITETHORN	CONST
Richard Weber	Richard Weber	Shelter Cove	Const.
Joshua Hatch	Joshua Hatch	Shelter Cove	chef/ private contract
JANET FORTEOUS	Janet Forteous	Shelter Cove	RE Broker
Krista Clem-O'Sullivan	K. Clem O'Sullivan	Shelter Cove	Consultant
David Galvan	[illegible]	Shelter Cove	Const.
Eva Carpenter	Eva Carpenter	Shelter Cove	Waitress
Lynn Wright	[illegible]	S.C.	Business Owner
Chloe Bear	Chloe Bear	Garb	retired
Magnolia	[illegible]	Shelter Cove	Deli
Will Brant	[illegible]	Shelter Cove	Self employed
Sara Machi	Sara Machi	Shelter Cove	self employed
David Hudson	David Hudson	Shelter Cove	laborer
Teri Brown	[illegible]	S.C.	Laborer
Jackie Sullivan	[illegible]	FORTUNA/WHITETHORN	Self-employed
DENNIS COCKING	Dennis Cocking	Shelter Cove	Rep. Tribal Council So. HUM.
Chuck WARREN	[illegible]	"	
Bill Finley	[illegible]	Shelter Cove	Electrician
Jason Andrews	[illegible]	Shelter Cove	Contractor
Joey Berson	[illegible]	Shelter Cove	Contractor
Christy Orion	[illegible]	Whale Gulch	teacher
A. LICARDO	[illegible]	SHELTER COVE	DESIGNER
B. Anderson	B ANDERSON	SHELTER COVE	
L Patterson	[illegible]	[illegible]	Engineer
DON SACK	Don Sack	SHELTER COVE	COMM FISHERMAN

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Print Name	Signature	Town	Occupation
Greg King		Eureka, CA.	Sporting Goods Sales
Todd Wagner		Eureka, CA	Sales
Aaron Mangum		Arcata	Heavy Equipment Oper.
Reed Gatton		McKinleyville	Sporting Goods Sales
Alan Rice		Eureka, CA	Sporting Goods Sales
Joseph Reyna		Fortuna CA	Carpenter
Jayne McCain	Jayne McCain	Eureka, CA	Admin Secretary
Daniel King		Arcata, Ca	Coast Supervisor
Carl G. Anderson		Trinidad, CA	Biologist/Harvester
Gary L Nunnally		Eureka, CA	Sheriff
Michael A Stewart		Eureka CA	Mill worker
Brad Hobbs		Eureka CA	landscaper
Greg Rice		Eureka, CA	Sales/Sporting Good
Ivan Lunak		Miranda CA	Operating Engineer
Randy Nielsen	Randy Nielsen	Arcata, CA.	Truck Driver
Matt Rogers		Eureka CA	Student
Nancy Argo	Nancy Argo	Bradisi, CA	Teacher
Case Allen		Eureka CA	Optician
Richard King		Hoopa CA	Retired
Dustin Vegas		San Jose Ca	Student
Jason Thatcher		Eureka	Deputy
Andrew Weitz		Arcata	Biologist
Dan Culver		Eureka	Construction
Pat McNeil		Eureka, CA	Regional Director
Ben VanZandt		Eureka CA	Rest

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Print Name	Signature	Town	Occupation
KEITH A GIFFORD		Redway	Carpenter
Kaylee Malory		Shelter Cove	Deli
TODD MUSE		Shelter Cove	Fireman
KRISSY MUSE		Shelter Cove	unoccupied
Humberto Wright		Shelter Cove	business owner
Kevin McGath		Redway	Rec fisherman
JOHN POGUE		Phillipsville	Retired
STEVE SADLER		Phillipsville	DISABLED
Tim Hennessy		So Lake Tahoe	Mechanic
JEFF CANE ROSE		WHITETHORN	FARMER
Tommy York		Shelter Cove	Pizza shop/Coffee Shop
Rick Lemos		Briceland	unemployed
Devan C. Curry		Shelter Cove	Clown
Erin Gienger		whitethorn	Self
TIM OSEN		WHITETHORN CA	FIRE CHIEF
JOE MARENGHI		SHELTER COVE	CONTRACTOR
ERIC MYERS		SHELTER COVE	J
Carla Laney		Shelter Cove	business owner
Ivy Etter		Shelter Cove	Mom
Al Winton		Redding	Bldg Contractor
Amanda Blaine		Shelter Cove	bartender
JASON RICE		SHELTER COVE	Cook
ANDREW WATERS		SHELTER COVE	CARPENTER
Jesse Robinson		Shelter Cove	Electrician
John Hearst		Redway	Consultant
GEORGIA SACK	Georgia Sack	shelter cove	HSU STUDENT

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Print Name	Signature	Town	Occupation
Tracy Watkins		Redway	Retail
GARY BLAKESLEE	Gary Blakeslee	Redway	service
Richard Kehoe	Richard Kehoe	Whitethorn	Painter
Dave wright	Dave Wright	Geyserville	Dental tech
Tracy Wright		Geyserville	Firefighter
Andy Freed	Andy Freed	Shelter Cove	Retired
Annette Bohannon	Annette Bohannon	SHELTER COVE	RETIRED
GARLAND FRY	Garland Fry	SHELTER COVE	RETIRED
Larry Patterson	Larry Patterson	Diamond Springs	Engineer
Zach Patterson		Diamond Springs	Chainman
Jim Coats		Mayaville CA.	Retired
Ben Wilson		Garberville	Carpenter
JEFF MOCK		TRACY CA	ELECTRICIAN
Teresa Tam		San Jose, CA	Insurance Broker
Cole Wilson	Cole Wilson	Garb.	Carpentry
HERBERT KING	Herbert King	Berkeley	Landscaper
Jody Campbell		Vallejo	
Jeff Lee		Emeryville CA	Cafe Owner
William Bolt	WILLIAM BOLT	GARBERVILLE	Commercial Fisher (SC)
Joel Sigurdson		Eureka	School Counselor
Liane Boyd	LIANE BOYD	Shelter Cove	Home CARE
SAGE Koenig		Shelter Cove	Construction
Glen Hart		McKinleyville	Retired
	Donald Goodbey	Eureka	Glass Blower
Norman Henry		White Thorn	Retired

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Print Name	Signature	Town	Occupation
Chet Edeline	CEdeline	Shelter Cove	Retired fisherman
Nova Allison	Nova Allison	ShelterCove	retired
Karen January	Karen January	Smartsville	Upholstery
Michael Paquet	Michael Paquet	Shelter Cove	Contractor
Chuck Thompson	Chuck Thompson	ShelterCove	Captain
Linda Thompson	Linda Thompson	Shelter Cove	life observer
Steve Ross	Steve Ross	San Rafael	Merchant Marine
Regina Joyce	Regina Joyce	Novato	Administrator
CHRIS MATTHEWS		NOVATO	DRAFTSMAN
Jameson Hutson	Jameson Hutson	Whitethorn	Carpenter
BRIAN LISTON	Brian Liston	SAN RAFAEL	GREEN CONTRACTOR
Dee Sass	Dee Sass	Redway	Construction
JERRY		REDWAY	CUST
Nicholas Weatherholt	Nicholas Weatherholt	Eureka	Fisheries Technician
DAVID BAKER		SAN DIMAS	ENGINEER
Richard Gillaspie	Richard Gillaspie	Chico	CPA
Matt Hilbrink		Davis	Mgr
JERI MALONE	Jeri A. Malone	Shelter Cove	RN
Andrew Fore		Shelter cove	Student
MAUREEN SMITH	Maureen Smith	Shelter Cove	Mommy
MATHEW Shimon		Shelter Cove	Pilot
Delisa Shimon	Delisa Shimon	Shelter Cove	Flt. Attendant
CHARLES May	Charles May	Shelter Cove	retired
Harold R Lindau	Harold R Lindau	McKinleyville	Retired
MARCELLA LINDAU	Marcella J. Lindau	McKin.	Retired / comp

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Print Name	Signature	Town	Occupation
Elizabeth Mackay		Eureka	Teacher
Jon Sousoe		FULLERTON	MECHANIC
Karen Schade	Karen Schade	Fullerton	Homemaker
Merle Gier	Merle Gier	ST GEO UT	Retired
Corley Brown	Corley Brown	Eureka	retired
Bill Murphy	Williams Murphy	Lake Cty	CARPENTER
Charles McClure	Charles McClure	S. Cove	NO
Nellie Suffield	Nellie	S Cove	Retired
Tom Kelley	Tom Kelley	S.C.	Ret
Jo Ann Kelley	Jo Ann Kelley	S.C.	Ret
John Kelley Jr	John Kelley Jr	SC	Retired
Rachel Cohen		SC	consultant
Kevin McGrath	Kevin B McGrath	Fortuna/SC	Retired/Disabled
Patty Nagy	PATTY NAGY	"	
Patricia Hensley	Patricia E Hensley	Whitethorn Ca	retired
TRICIA DAHLE		SC	retired
WARREN HENSLEY	Warren Hensley	SC	"
DAVID T. SMILEY	David T Smiley	SC	MSW
~~Trent Slate~~	~~Trent Slate~~	~~SC~~	~~Fisherman~~
Janet Lopes	Janet Lopes	Shelter Cove	Retired
Joe Lopes	Joe Lopes	Shelter Cove	retired
Phillip HARRIS	Phillip Harris	Shelter Cove	Retired
GERI HARRIS	Geri Harris	Shelter Cove	Retired
Glen E Sievert	Glen E Sievert	Pacifica, Ca.	Retired
DAVID PUCCI	David Pucci	PACIFICA CA	RETIRED

To: Ken Wiseman; Executive Director MLPAI
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7-19-10

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Print Name	Signature	Town	Occupation
John H. Cathey	John H. Cathey	Redcrest	Retired
James B. Morenda	James B. Morenda	Rio Dell	Retired
Susan Etter	Susan L Etter	Petrolia	Rancher
James Etter	James Etter	Petrolia	Rancher
THomas GRUNDMAN	Thomas Grundman	Rio Dell	Retired
GARY LENARDO	Gary A Lenardo	RIO DELL	MECHANIC
Pierce Baymiller	Pierce Baymiller	Scotia	Mgr
Ron Killingsworth	Ronald A Killingsworth	Scotia	Blue Collar
Billy Evans Jr	Billy Evans	Fortuna	Equip Operator
Lance Bravo	Lance Bravo	Scotia	logger
Billy Belmont	Bill Belmont	Scotia	
Mike Fuller	Mike Fuller	Scotia	FLG Installer
Chuck Crenshaw	Chuck Crenshaw	Rio Dell	Equip Operator
Tim Nichols	Tim Nichols	Blue Lake	LINEMAN
chuck Roberts	Charles Roberts	Fortuna	City of Fortuna
Mike Mullinax	Michael S. Mullinax	Redway	Pitt-Proof Kennels
Allen Wallace	Allen Wallace	Rio Dell	
Dillon Lewis	Dillon Lewis	Fortuna	Painter
John Lewis	John Lewis	Fortuna	Painter
Jim Pontes	Jim Pontes	Fortuna	Contractor
~~JIM MINDOS~~	Jim Mindos	~~EUREKA~~	~~WHOLESALER (FISH)~~
Betty J Thomas	BETTY J THOMAS	WEOTT	RETIRED
CHARLES L. THOMAS	Charles L Thomas	" "	" "
JEAN ELDRIDGE	Jean Eldridge	RIO DELL	SALES
ANTHONY COMETTO	Anthony Cometto	Loleta	RETIRED

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Print Name	Signature	Town	Occupation
Kenny George		Garberville	IHSS
Eric Martin		Garberville	self employed
JON KUCHAR		SAN DIEGO	RETIRED
Lori Brower		SAN Diego	RDA
Robert Breshears		Burney	Retired
NORMAN L HAWK		PIERCY	RETIRED
Tyler Lewis		Garberville	Truck driver
Amber Lewis		Garberville	Self employed
Lorie Whitney		Twin Falls, ID	Professional
ART [illegible]		Chino Valley AZ	Retired
Kathy Wilson		Prescott, AZ	Retired
Mike Whitney		Garberville, CA	STORE OWNER
[illegible] Anderson		Liverpool	Soldier.
Lesley Hanley		Redruth UK	Dental Nurse.
Kirk Ohs		Penn Valley CA	Contractor
John Carr	John Carr	Alderpoint	Guide
Michael A Brierley		Garberville	Contractor
ERIC J [illegible]		Shelter Cove	Contractor
Jacob McMahan		Benbow	Self employed
Sean Finley		Shelter Cove	contractor
~~Todd Pogue~~	~~John Pogue~~	Phillipsville	Retired
Terest Brown		Miranda	Sporting Goods
Claire Redfern		Castro Valley	Teacher
Sam Wilber		Miranda	construction
Jesse Mela		alderpoint	Self employed

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Print Name	Signature	Town	Occupation
Catherine Smith	Catherine Smith	Hidden Valley	School Bus Driver
Matt Smith	Matthew Smith	Clearlake	computer Science
Sunny Sta[illegible]	Sunny Sta[illegible]	Santa Rosa	Admin.
Ken Vallotton	Ken Vallotton	Whitethorn	Equipmt Operator
P. [illegible] ACKRAS	[illegible]	HAYFORK	SELF.
Ross Johnson	Ross Johnson	Redway	Self
C. Thompson	[illegible]	Whitethorn	Fisheries Restorationist
Dave DeSomery	Dave DeSomery	Redway	Retired
Tony Centeno	Tony Centeno	Piercy	Semi Retired
JEFF Hansen	Jeff Hansen	Piercy	Carpenter/Fisherman
James C. Conway	[illegible]	EEL Rock	CONTRACTOR.
Bryan Morris	[illegible]	Miranda	Self
Nathaniel Murray	Nathaniel Murray	Eureka	Self
Vernon Harden	Vernon Harden	Myers Flat	Retired
Tristan Wilhoyt	[illegible]	Redway	hardware
[illegible] Braverman	[illegible]	Whitethorn	Self
[illegible]	[illegible]	Fortuna	Self
Leilani Burch	[illegible]	Miranda	Retired
Mark Arthur	Mark Arthur	Piercy	Environmental Engineer
[illegible]	[illegible]	[illegible]	[illegible]
Lynn Harrington	Lynn Harrington	Redway	Self
Marcel Doane	[illegible]	Redway	Self
Amanda Meggers	Amanda Meggers	Redway	Self
[illegible]	Jonah Greenfield	Garberville	Self
Mathew Nelson	Mathew Nelson	Los Angeles	Web Developer

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Print Name	Signature	Town	Occupation
Jon Benton		Shelter Cove	Architect
ERIC J. LIGHT		SHELTER COVE	MUSICIAN
Crystal L Worthy		Shelter Cove	—
Judy Kuhl		Shelter Cove	Teacher
RICHARD KUHL		Shelter Cove	Retired
~~Pat Jurabanovic~~	~~Pat Jurabanovic~~	~~Shelter Cove~~	~~Retired~~
SANDRA KING		Shelter Cove	Retired
Cheryl Antony	Cheryl Antony	Shelter Cove	RN Firefighter, EMT-1
Michael C. Yates	Michael C. Yates	Shelter Cove	Retired
Sydney MacDonald		Shelter Cove	Student
Bruce MacDonald		San Diego	consultant
STEVE WALDRON		ANDERSON	LINEMAN
Mike McWhorter		Anderson	Route Sales
Keri McWhorter		Anderson	
~~Erin Canada~~	KEVIN CANADA	REDWAY	RET
Laura Walrea		Anderson	Kids (Highs)
Nedra O'Steen			retired
Ronald O'Steen			"
Maryellen McKee		Whitethorn	preservation
Ruben Ramos	Ruben Ramos	Garberville	construction
Ron Jenson		R.B Benbow	HOIST OPERATOR
~~Pam Armstrong~~	~~Pamela Armstrong~~	~~Shelter Cove~~	~~None~~
Mickey Baldwin		Redondo Beach	
Mark Jensen		Shelter Co.	Teacher
MATT SCOTT		Garberville	Investor

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Print Name	Signature	Town	Occupation
Scott Allardice	Scott Allardice	Fortuna	Shafer's Ace
C F Goodwin	Charles F Goodwin	Eureka	Retail Sales
Janet Richards	Janet Richards	EKA	Retail
Racy Mathers	Racy Mathers	Eureka	Retail
~~Glenn Kelly~~	~~Glenn Kelly~~	~~Fields Ldg CA~~	~~Self Employed~~
Lloyd Heins		Eureka, CA	CATV
Jim Tayer		Eureka	Papé Material
Joseph Morgan		Eureka	Restaurant Owner
Steve Downing		Eureka	Commercial Fish Buyer
Charles C Williams		Eureka 95503	Retired - Tax Preparer
Lonnie Dollarhide/Sampe		Rio Dell	Mill Work
Waylon Kelly		Fields Ldg.	Roofer
Joy Fuller		Eureka	Self-employed
Floyd Squires		Eureka	self employed
Gary Rodin		Miranda	Retired
John Morrison		Eureka	Retired Fisherman
Ben Williams		Eureka	Retired Fisherman
Aaron Widmark		Eureka	Sales
Darcy Brown		Eureka	—
Travis Smith		EKA	Contractor
[illegible]	Glenn Creighton	Eureka	retired
Gwendene Johnson	Gwendene Johnson	Eureka	Retired
J.M Johnson		Eureka	Retired
Fred Darlington		Arcata	Retail
Deettie McVay		Eureka	Business Owner

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Print Name	Signature	Town	Occupation
DICK SUTTLER		Brookings OR	Retired
Giovani Maqueira		Lincoln	Aviation tech
Bryan Scilacci		Fortuna	Dairyman
Brett Miller		Rio Dell	Mechanic
ALMA McReynolds	Alma McReynolds	Mckinleyville	Retired
Sheila Rose	Sheila Rose	" "	"
VERNIN Smith		Rio Dell	Retired
ALAN GOOD II		mck	MANAGER
Jim crook		mck	Owner operator
Leatrice Carver	Leatrice Carver	mck	house wife
Walter Vance	Walter Vance	Eureka	Timber Faller
Deborah Mushalt	Deborah Mushalt	HAYFORK	Coder
CHRIS MUSHOLT		HAYFORK	MAINT.
Locke Stockenbarrel		Hayfork	Taxadermy
Molly Ploeger		Hayfork	Receptionist
Leo Perrone	Leo Perrone	Hayfork	Maint. Sup. MVUSD
Brad Durbin		Eureka	UPS
Larry Schoenberner		Eureka	UPS
John M.G. Brown	John M.G. Brown	Box 30 Petrolia CA.	Rancher
Ronald Wesley Green		Ulich	loader
John Snyder		Redwood Valley	Fisherman
Graham Barickla		Willow Creek	Rancher
Abe Fockler		Fortuna	Contractor
LEE ESTER		ARCATA	Cook
Christopher Anderson		Arcata	Village owner

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JOHN DAHLE		Shelter Cove	Retired artist
DENNIS COCKING	Dennis C. Cocking	Shelter Cove CA	Founder - SURFRIDER FOUNDATION
Laura Lameris	Laura Lameris	Shelter Cove CA	R.C.L.V. INTERNATIONAL Teacher
ROBERT LAMERIS		Shelter Cove	ARCHITECT
Johan Cadwell		Shelter Cove	Carpenter
Brittany Warren		Garberville	Student
Johnny Buckshot		G-Ville	Carpenter
Mike Ritter		Lake Tahoe	CEO
Marsha Pennington	Marsha Pennington	Redway	Clerk
Josh Roberson	JOSH ROBERSON	REDWAY	CLERK
Marie Etherton	Marie Etherton	Whitethorn	Education Paraprofessional
LUKE STECKLEY		HONEYDEW	CARPENTER
ED MILLIGAN		CRESCENT CITY	TUG BOAT/AL
MATT Shimon		Shelter Cove	Pilot
JIM COURTOIS		BRKELAND	GEN. CONTRACTOR
Robt. C. Neal	Robert C. Neal	Alameda	Retired
Elizabeth Veneill	Elizabeth Veneill	Meridian CA	Laboratory Director MHA, MBA, MT(ASCP)CM
Ryan Baxter		Mckinleyville	Surgeon
Michael Pullen		Fernbrook	Land Surveyor
Sion Tallerico		Shelter Cove	Construction
DAVID GOLD		St. Helena CA	VETERINARIAN
	Xenia Reilly	Aldergrove	C.N.A.
Lauren CHAMPION	Lauren Champion	Shelter Cove	
JOHN D. ADAMS		Shelter Cove	Contractor

To: Ken Wiseman; Executive Director MLPAI
Melissa Miller-Henderson; Program Manager MLPAI

7-19-10

From: Citizens Alliance - wishing to vote for no additional MPAs in the North Coast Region allowing only the existing Punta Gorda State Marine Reserve.

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Print Name	Signature	Town	Occupation
Judith A. Boggs	Judith A Boggs	Shelter Cove	Retired
FRANK R. BASSO	Frank R. Basso	SHELTER Cove	RETIRED
Tesia Beauchene	Tesia Beauchene	shelter Cove	mother / Homemaker
ROBERT NOLTE	R.S. Nolte	Shelter Cove	Carpenter
RAY BENITORI	Ray Benitori	SC	Stripper (fisherme & commercial
CONRAD CHRISTIANSON	Conrad Christianson	SHELTER COVE	PAINTER-
ROBERT Hamilton	Robert Hamilton	Shelter Cove	Sheriff Deputy
Mac Anderson	Benjamin Mac Anderson	S. Cove	RETIRED
Mira Davis	Mira Davis	Shelter Cove	witness
Joey Nobles	Joey Nobles	Shelter Cove	Artist
Jared Johnson	Jared Johnson	Shelter cove	landscaping
Audrey Hetherlett	Audrey Hetherlett	Garberville	Wife
Nancy Soha	Nancy Soha	Potomac MD	Coach
Wendy King	Wendy King	Huntington Beach	Adventurer
Bob King	Bob King	Huntington Bch.	Fun Seeker
Robert Frostic	Robert L. Frostic	Shelter Cove	General Contractor
Chris Lasher	CHRIS ZOSTROW	S. C.	Retired
Andrew Baldwin	C.E.B.C.	S Cove	Floor Contractor
Bill Eubanks	Bill Eubanks	S. Cove	Retired
Layne Kaufman	Layne Kaufman	S. Cove	Fisherman SC Commercia
Todd Wick	Todd Wick	S. Cove	Fisherman
RICK TOTTEN	Rick Totten	S. COVE	RANCHER
Lisa Henninger	Lisa Henninger	Briceland	SW
Bob Downing	Bob Downing	S Cove	Elect / Fisherman SC Commer
NOEL MANNERS	Noel Manners	COVE	BUSINESS

To: Ken Wiseman; Executive Director MLPAI
Melissa Miller-Henderson; Program Manager MLPAI

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Print Name	Signature	Town	Occupation
Robert Johnson	Robert Johnson	Eureka	Firearms Dealer
Bob Bettin		McKinleyville	RETAIL Fishing/Hunting
Don Smith		EKA	Insp.
Allen Day		Arcata	Distributer
Andy R. Cudney		Eureka	Retired
Tom Cartwright		FORTUNA	X-RAY Technologist
Eric O'Ferrall		Kneeland	Painter
Justin Kelly		Arcata	Retail - Hunting / Fishing
Paul Windham		Bayside	physician
Jan Zeiters		McKinleyville	Retired
Patricia Kitt		eureka	workcomp
Mark Santsche		Kurata	
Elizabeth Moore		Eureka	housewife
Brett Towell		McKinleyville	Firefighter
Jerry Hayes		Eureka	Retired
John Shelton		Eureka	Water/wastewater Maintenance
Chris Busse		Eureka	Citizen Boat Owner/Op
Molly Glasper		EUREKA	Small Business Owner
Kaine Glasper		Eureka	Student
JoAnn DeNome	JoAnn Swan DeNome	Fields Landing	Mother
Willie Swan		Fields Landing	Student
Polly Vickers		Rio Dell	Mother
Jerry L. Vickers jr.		Rio Dell	Hunting guide
Kevin G DeNome		Fields Landing	Small Business owner
SAMMY STAKSTEN		Shelter Cove	Const

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Print Name	Signature	Town	Occupation
Sally Benton	Sally Benton	Shelter Cove	Retired teacher
John DeRoetes	X John DeRoetes	" "	" " MINER
TODD Bruinsma	Per email 8/4/10 471 Seafoam Rd	Shelter Cove	
Cynthia Imhoff	Per email 471 Seafoam Rd	Shelter Cove	
Chris King	110 Cove Nw est	Shelter cove	Fisherman (SC comm)
Teresa Davey	PO Box 83 Harvey Ca	itaveyaew	mom Teresa Dav
Dan Rotary		Eureka	Logger / Fisherman
Kerry Goodman		Eureka	School Administrator
Jeremy Lights	Jeremy Lights	San Geronimo	engineer / carpenter
Chrissy Light	C Light	San Geronimo	RN
CLYDE FOX	Clyde Fox	SHELTER COVE	RETIRED
ADAM ALD		RICHMOND	MASON
Jon Bajema		Richmond	Carpenter
MARK W. MAPES	Mark W. Mapes	Shelter Cove	RETIRED
Stephen Carpenter	Stephen Carpenter	Bodega Ca.	Fisherman

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Print Name	Signature	Town	Occupation
Rod Boone	Rod Boone	Scotia	Sales
Mark Papazian		Somoa	Register Operation
Gerald E. Hale	Gerald E. Hale	McKinleyville	Retired
Michael M Brayer		mckinleyville	COM. Fishermen
KEVIN CLARKEN		McKinleyville	COMMERCIAL DIVER
STEVE PSCHAIDA	Steve Pschaida	Morro Bay	Commercial Fisherman
SCOTT BRADSHAW		Blue Lake	Fish Processor
Liz Power	Liz Power	Shelter Cove	Geothermal
Keith Power	Keith Power	" "	Geothermal
BRIAN McGRATH		Alderpoint	Retired
ROGER HALL	Roger W Hall	ALDERPOINT	Retired
Patrick Oshea	PATRICK C O'SHEA	SAN LEANDRO CA	Commercial Fish
Shasta Kersh	Shasta Kersh	Whale Gulch	Carpenter
Kevin CLIFTON		Rancho Cordova, CA	Commercial Fishing

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Print Name	Signature	Town	Occupation
Jesse McKee		Whitethorn	Retail
Jon Walter		Whitethorn	Wholesale
JOHN PANNELL		Whitethorn	Technical support
Conrad Worthy		Whitethorn	REAGENT / Port Elsho
Seth Ayers		Selter cove	cook
Brandon Mahelona		Citrus Heights	Retail
~~Mac Anderson~~		~~Scotia Cove~~	~~retired~~
Keoni Begin		Shelter Cove	Clerk

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Print Name	Signature	Town	Occupation
Patrick Hawkins	Pat Hawkins	Eureka	Barista
Peter Werner	Peter Werner	Redway	Carpenter
SHANNON ANDERSON	Shannon Anderson	NVAPA	Retired
BRIAN ORMONT	Brian Ormont	Garberville	Chiropractor

To: Ken Wiseman; Executive Director MLPAI
Melissa Miller-Henderson; Program Manager MLPAI

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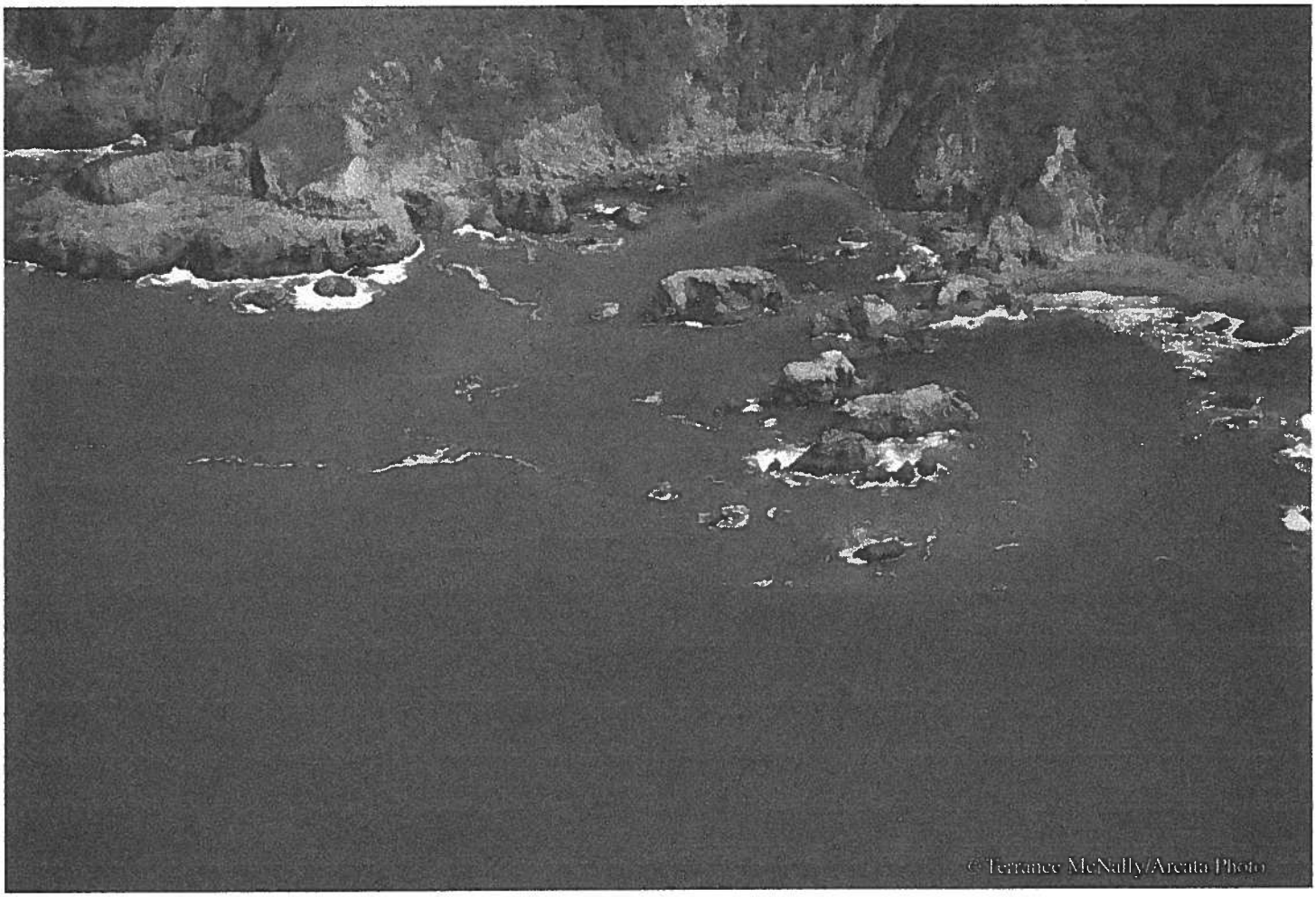
Print Name	Signature	Town	Occupation
Lorraine Fulmer	Lorraine Fulmer	Ft Bragg.	Proprietor

SUPPORT MARINE PROTECTED AREAS IN CALIFORNIA



Dear Assemblymember Chesbro:

We, the undersigned, support the Marine Life Protection Act and urge you to encourage a science-based, community-oriented marine protected area network along the North Coast.

The coast and ocean are not only an important part of the North Coast economy, but key to our quality of life. Much like our renowned state and national redwood parks, an effective network of marine protected areas will create safe havens for wildlife. If grounded in science, that network will ensure our fishermen and others who depend on the ocean's harvest are able to do so generations into the future.

Thank you for your work to support the protection of healthy oceans for our kids and grandkids.

Name (please print)	County of Residence	Contact Email
Denise Seeger	Humboldt	
Liz Sandstrom	Humboldt	HSUDIVECLUB@GMAIL.COM
Carol Morse	Humboldt	CFMNEWSONG@RENIMET.COM

Name (please print)	County of Residence	Contact Email
Jordan Rae	Humboldt	Jordan-a-race@yahoo
Jeff Muir	King.	jeffmuir.
Angelo Hames	Fortuna	061-mace82@hotmail.com
Caryn Beiter	Humboldt	
Bridget Barsotti	Humboldt	
Mihael Blekhteyn	Humboldt	MIKBLIKE@gmail.com
Vanessa Jensen	Humboldt	
Louisa Gould	Humboldt	louifrica@yahoo.co
Dona Smith	Humboldt	

entered 8-9

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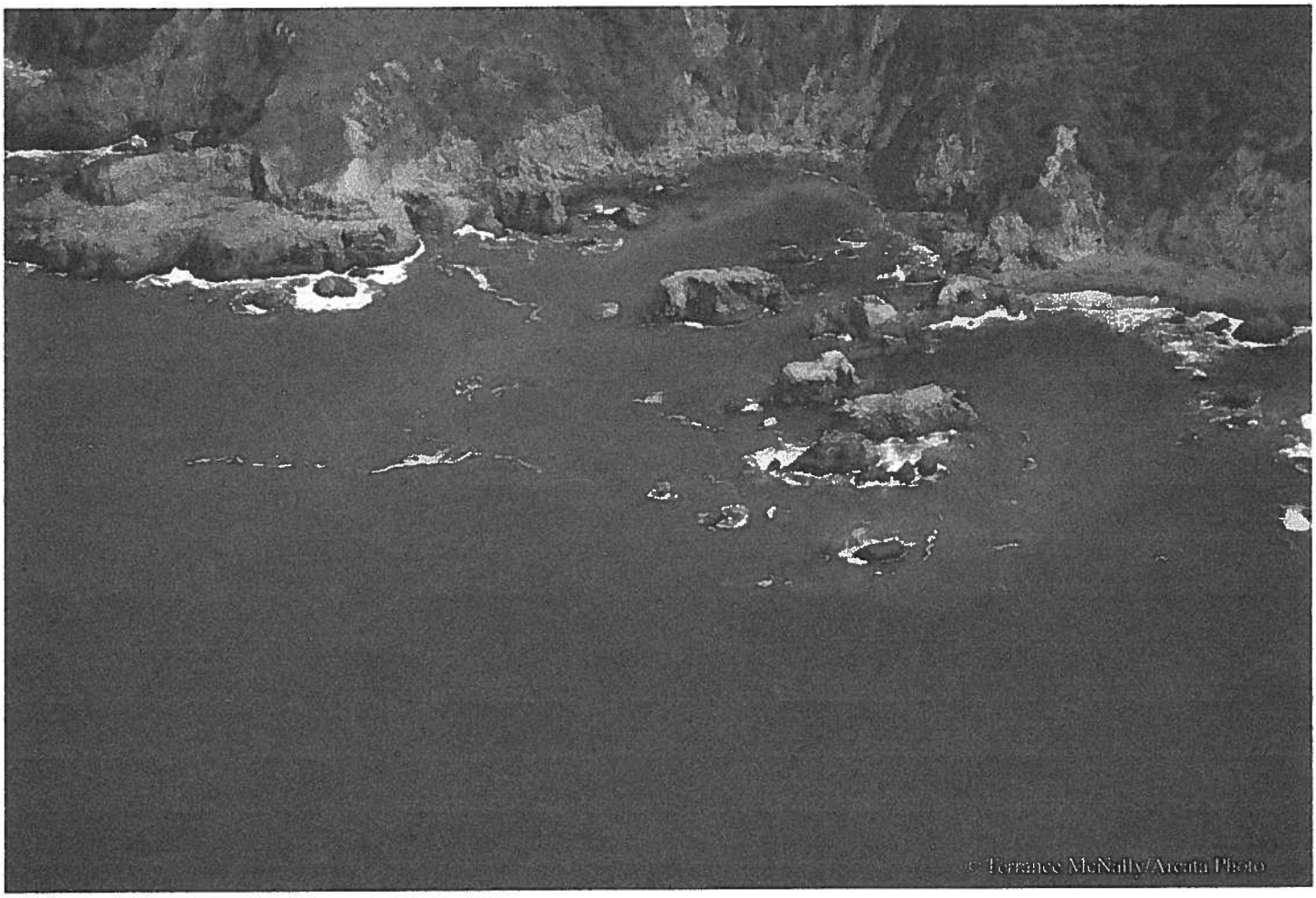

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Name (please print)	County of Residence	Contact Email
Michael Turner	Humboldt	
Edward Tanner	Humboldt	
Elizabeth Thomas	Los Angeles	

I entered 8-9

Name (please print)	County of Residence	Contact Email
Karin Saltzmann	Humboldt	
Kaitlin McGuinness	Monmouth NJ	
Daniel Menck	Humboldt	Juggleathis5@hotmail.com
Ryan Odle	Humboldt	Ryanmodle@yahoo.com
Max Hewes	Humboldt	MaxHewes@yahoo.com
Fhyre Phoenix	Humboldt	fhyre@asis.com
Laurel Sherer	Humboldt	laurel.headingearth@gmail.com
Jovonne Dempster	San Diego	jovonne.dempster@gmail.com
HAL GLICK	HUMBOLDT	HALbgood@yahoo.com
Scott Harris	Humboldt	—
Gary Hanks	Contra Costa	—
Amber Harris	Humboldt	—
Patricia Harris	Contra Costa	

entered 6/9

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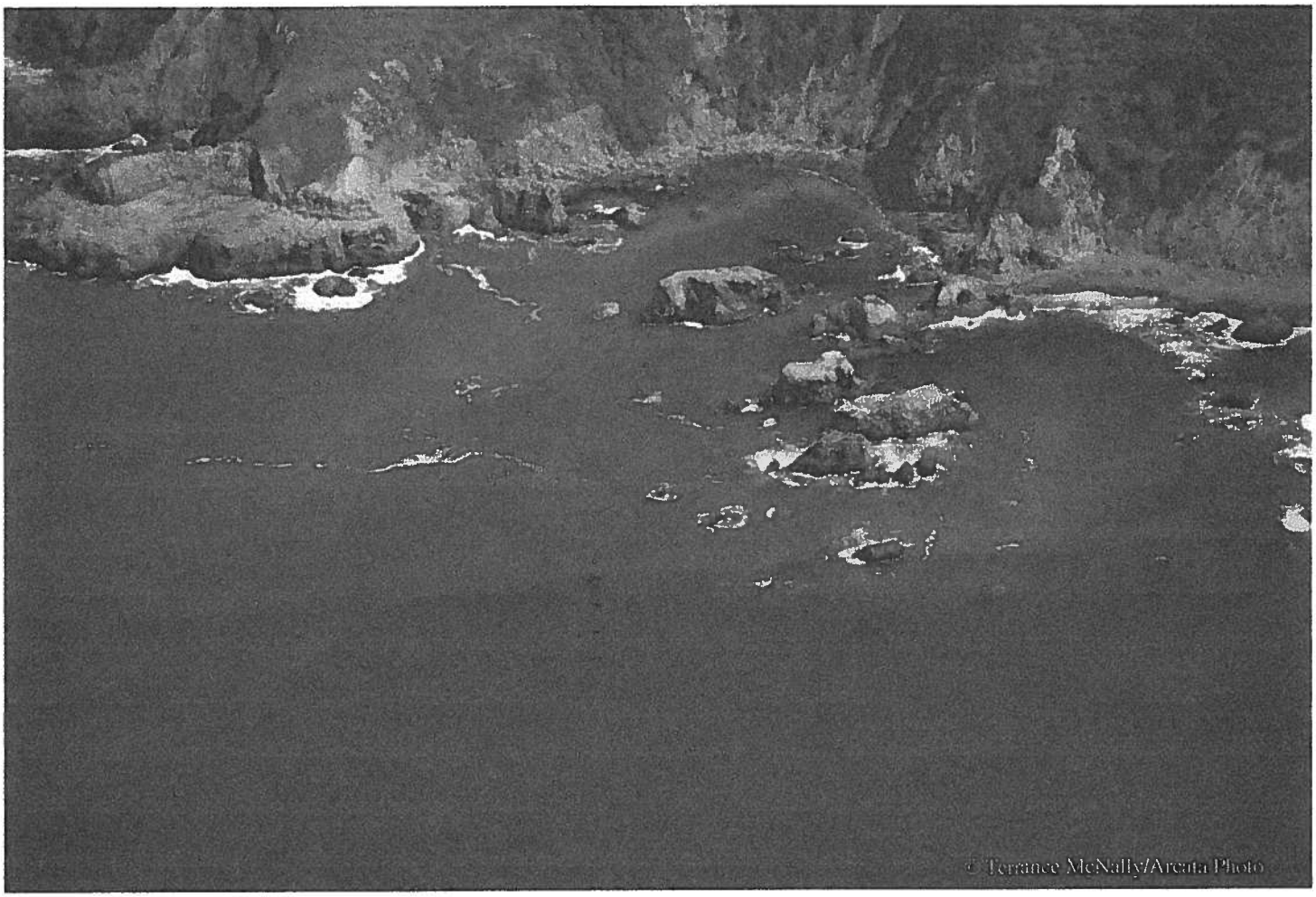

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Name (please print)	County of Residence	Contact Email
Matt Durham	Bayside CA	matthdurham@yahoo.c
Katherine Fergus	Arcata CA	
Breck Foulkes	Arcata Ca	granolaboy1@hotmail

Entered 8-9

Name (please print)	County of Residence	Contact Email
Jody Hay	Humboldt	aviafly@hotmail.com.
David Porta	St. Louis, Mo	dporta@live.com
Mary Porta	St. Louis, Mo	dimporta@msn.com
DEBRA SHRADER	LOS ANGELES, CA.	teach2play@gmail.com
Barbara Strutzel	Humboldt	bstrutzel1@gmail.com
Ana O'	Humboldt	anastasia01@hotmail
Jacqueline Ruggeri	Humboldt	jackpokes her nose@gmail.com
Emma	Humboldt	emma
Cassi Carter	Humboldt	
Virginia Figueroa	Humboldt	virginiaginafigueroa@gmail.com
Ryan Robie	Humboldt	ryro@sbcglobal.net
Shannon Filbey	Humboldt	quinnfilbey@yahoo.com
Hayden Ryan	Humboldt	

Name (please print) | County of Residence | Contact Email

Continued on Page 4

Name (please print)	County of Residence	Contact Email
STEPHEN M. SAHLI	LOS ANGELES	
Shana Langer	Humboldt	shanalanger@juno.com *
BEVERLY HALE	Humboldt	YAKWANOR@NINET.CO
BILL BURTON	HUMBOLDT	
Travis Jochimsen	Humboldt	Travis.Jochimsen@Gmail
Robert Domhofer	Humboldt	rsd128@yahoo.com
ALAN SANBORN	HUMBOLDT	LALA@ARCATANET.COM
BR Sherman	HUMBOLDT	emeht1@yahoo.com
JILLANN Ladd	HUMBOLDT	Jillyann2005@yahoo.com
ERIK Pickhardt	Humboldt	BAREQUEP@yahoo
Sue Hilton	Humboldt	
EDITH M Watson	2980 Highland Ct Arc	
Norma Watson	Humboldt	→ nmwatson@suddenlink.net
Christine Gottlieb	King County, WA	

Continued Page 4

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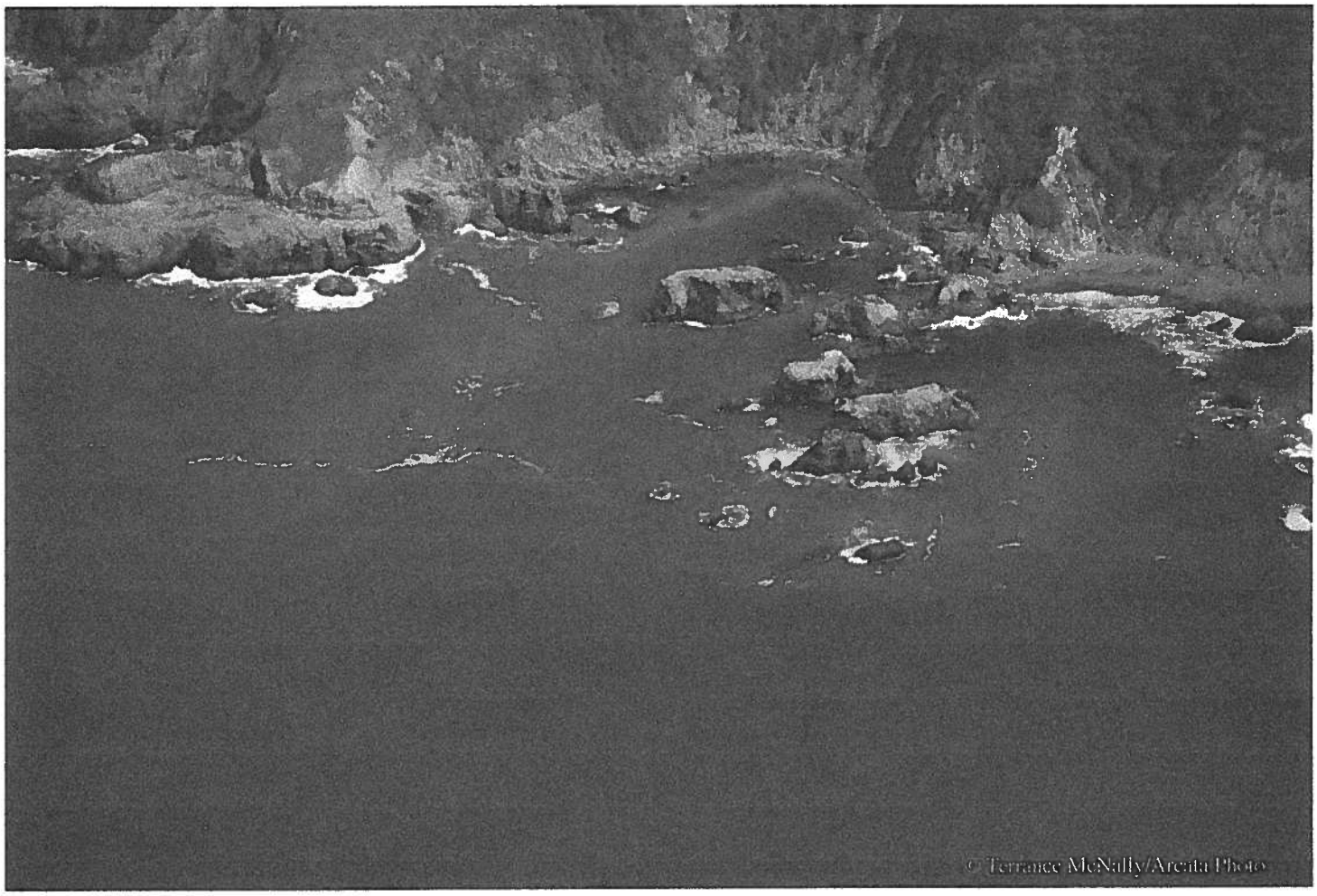

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Name (please print)	County of Residence	Contact Email
Gilbert Gale Hendley		gale224@yahoo
Tyler Stewart	Humboldt	tylergmy70@yahoo.com
Summer Pavo	Humboldt	sumsumd@hotmail.com

entered 8/9

Name (please print)	County of Residence	Contact Email
ROBIN M. DONALD	Humboldt	~~Storeheart~~@yaho.com
Rachel Harwood	Humboldt	raingheles@yahoo.com ~~Storeheart~~
MARIANNE PENNEKAMP	Humboldt	
ROBERT ELKHART	HUMBOLDT	
TRUTHIE BANKS	HUMBOLDT	MAMA BANKS @ NETZERO.COM

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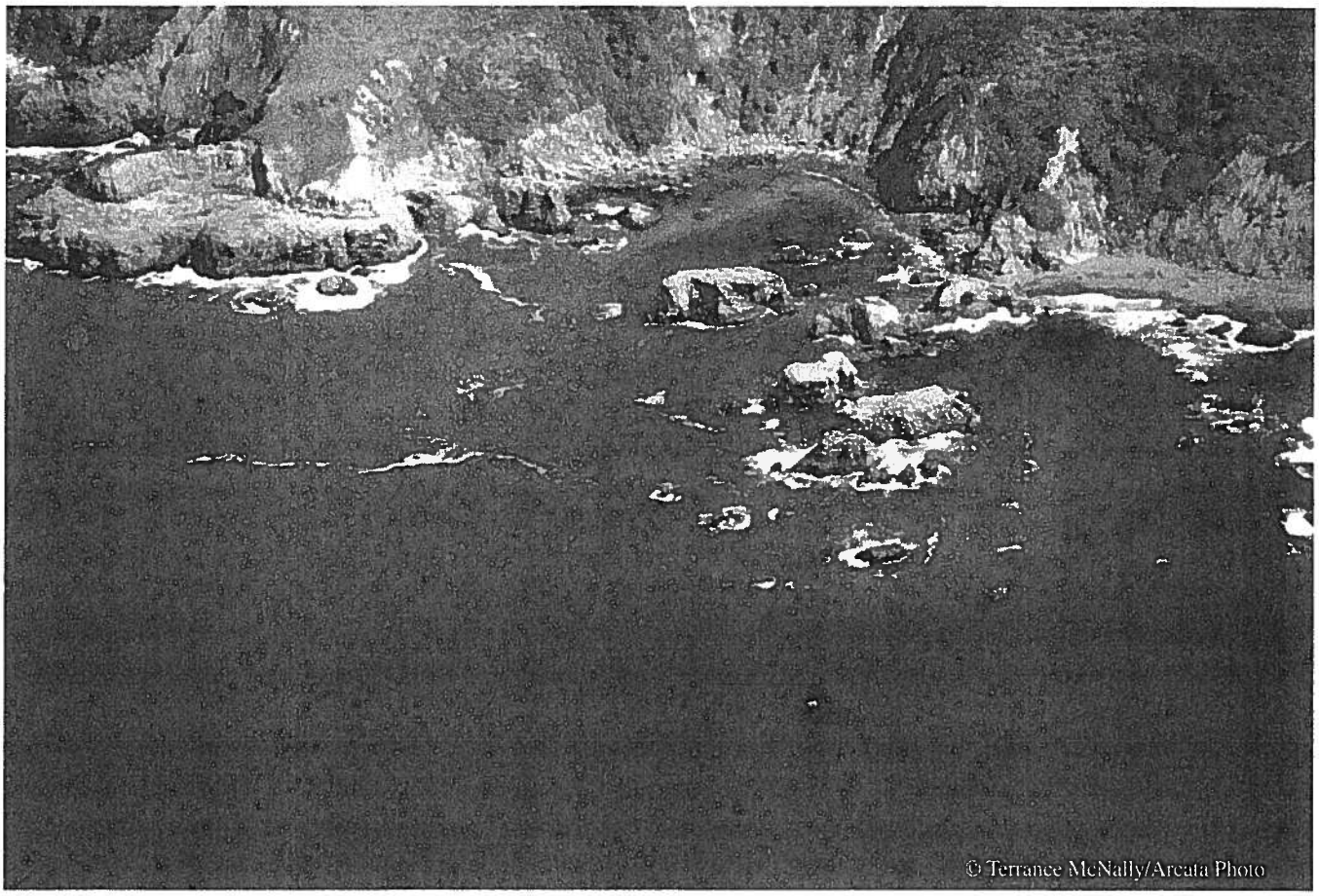

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Name (please print)	County of Residence	Contact Email
Marie M. Escher	Humboldt	marie.escher@att.net
BOB SCHULTZE	HUMBOLDT	
LOUISE BACKUS	SACRAMENTO	

Name (please print)	County of Residence	Contact Email
CHARLIE BACKUS	SACRAMENTO	
Kelly L. Crandall	Humboldt	Kellycrandall@gmail.com
Roy Ridgley	Humboldt	RoyRidgley@Gmail.com
Gabriel Day	Humboldt	ghday@hotmail.com
Camila Andres	Humboldt	Camila8810@gmail.com
Marlena Kogel	Humboldt	marlenakogel@yahoo.com
Martha Baratti	Humboldt	dave martha@gmail.com
Dave Pelletier	Humboldt	pellter1@yahoo.com
Sue Radcliff	Humboldt	Sispolol@Hotmail
Michael Chandler	Humboldt	DapitRat@gmail.com
CAROL WILLIAMS	East Bay	familywilliams@sbcglobal.net
David Meserve	Humboldt	davemeserve@suddenlink.net
Jean Doran	Humboldt	jeandoran@sbcglobal.net
Dan Holcomb	Humboldt	LandofWaterFalls@yahoo

Name (please print)	County of Residence	Contact Email
China Holcombe	CA.	CHLNA182@aol
~~Peter~~ Greg Willard	CA	—
EMMET BOWMAN	HUMBOLDT	—
John Urbance	Rc/ Norte	—
Cristina Dressel	Humboldt	—
Greta Montagne	Humboldt	greta.montagne@gmail.
Beverly Filip	Humboldt	nwlfe55@galuo. co
JAMES AYERS	HUMBOLDT	
Andrea Armin	Humboldt	andrea.gale.ag@ gmail cor
Jacob Ruiz	Humboldt	calibes@gmail.c
Schlussler	Humboldt	
Allison Toomey	Humboldt	allisontoomey@gmail.co
Stuart Toomey	S.L.O.	CSTUART@Hotmail.co
Emily Toomey	S.L.O.	emily@Toomey.com

Name (please print)	County of Residence	Contact Email
Steven Dimon	Humboldt	
Hollund Rudolph	Humboldt	
Laury1 Rudolph	Humboldt	
Yenaya Kinnel	Humboldt	AstaNovMusic@
Cecilia Santander	Humboldt	cc.thatsright@ya
Ruth M. Bettenhausen	Humboldt	rbette1999@yahoo.com
Mark Hergert	Humbolt	
ED KRAYCIK	HUMBOLT	ekraycik@hotmail
Phoenix Anthony	Humboldt	anthony-rose11@hotmail.com
John Owens	Humboldt	jt-dynasty@hotmail.com
JASON ADGATE	HUMBOLDT	JMA77@HUMBOLDT.EDU
Michael Gurney	Honolulu	locallboi@gmail.com
Kelsey Walker	Humboldt	kelsey_walker23@ya